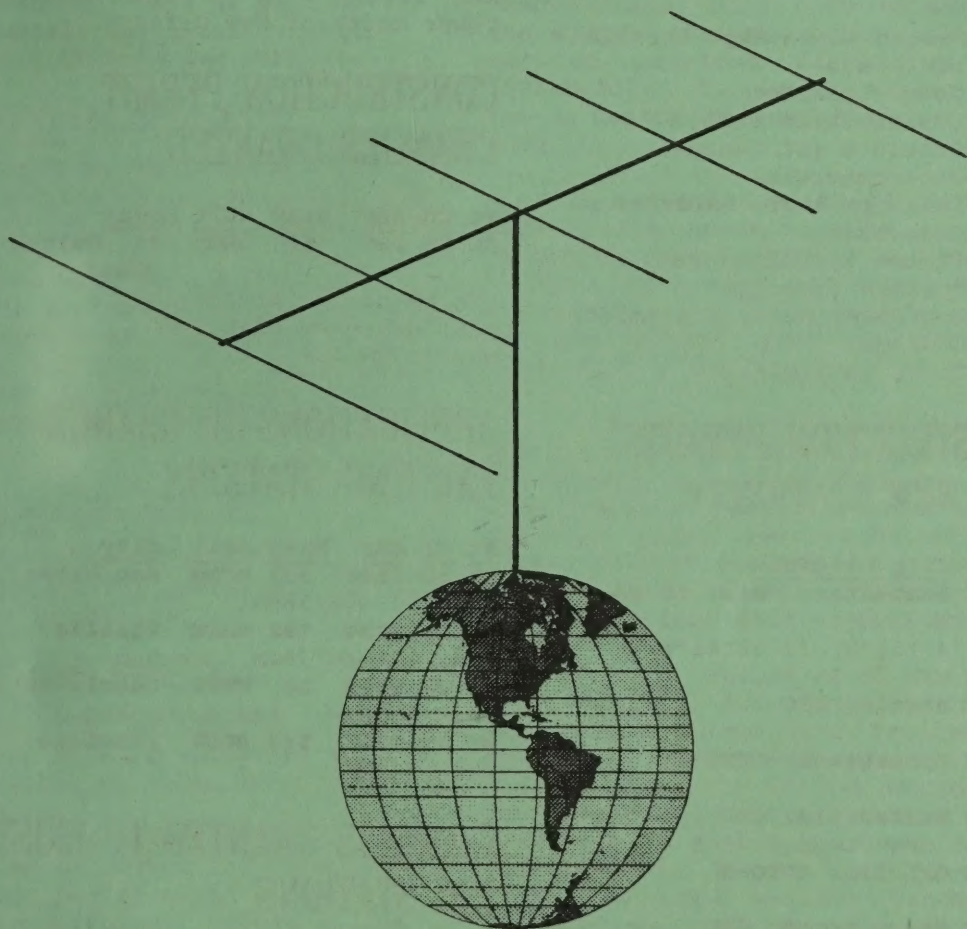


# Vhi-UhiDIGEST

The Official Publication of the Worldwide TV-FM DX Association

DECEMBER 1994

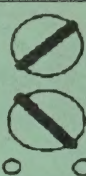


## SEASON'S GREETINGS!



## TV News

Doug Smith  
1385 Old Clarksville Pike  
Pleasant View, TN 37146-8098  
(615) 746-5205  
Internet:  
72777.3143@compuserve.com



Abbreviations used in this column:

ERP= Effective Radiated Power in kW

HAAT=Height Above Avg. Terrain

nc= no change

TL= Tower Location

CP= Construction Permit

Pr= Province (of Canada)

\*= Non-commercial

CRTC=Canadian Radio-Television Commission

DBS= Direct Broadcast Sat.

SS:= Spanish language

LPRT=Low Power Relay Transmitter (Canada)

TBD= To Be Determined

## CONSTRUCTION PERMITS FOR NEW STATIONS

Ch St City; license

**31 NC Lumberton; Univ. of NC**  
(3135kW/319m;

TL 34°47'51"N, 79°02'41"W  
6.8km WSW of St.Pauls)

**16 ON Barrie; CBC**

(183kW)

**54 ON Bobcaygeon; CFTO-9**  
(223kW)

**8 ON Huntsville; CBC**  
(43kW; see Other Stuff)

**21 ON Orillia; CFTO-9**  
(208kW)

**18 ON Parry Sound; CBC**

## APPLICATIONS TO CHANGE CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City
FL	46	126	59	WPCT	Panama City Beach

(TL 30°10'59"N, 85°46'42"W  
2km E on US-98. I don't have old facilities on this one.)

**LA 54 4376 213 none Slidell**

(TL 30°17'08.7"N, 89°54'18.2W

3.3km SE of Lacombe.

Was 1000kW/273m on the WHNO/WCCl tower south of New Orleans.)

## CONSTRUCTION PERMIT CHANGES GRANTED

St	Ch	ERP	HAAT	Call	City
FL	58	137	59	WAMD	Ft. Walton Beach

(TL NW corner of lots 325 &  
326, wherever that is!  
Was 490kW/49m.)

## APPLICATIONS TO CHANGE EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
CA	60	3540	362	KCSM	San Mateo

(was 1550kW/369m)

**CA 26 3236 792 KMPH Visalia**

(was 3240kW/784m. Ho-hum..)

**NC 42 1375 nc WTVI Charlotte**

(was 1380kW. Again, ho-hum..)

**NC 17 1537 546 WUNE Linville**

(was 912kW)

## CHANGES GRANTED TO EXIST- ING STATIONS

St	Ch	ERP	HAAT	Call	City
NY	26	659	180	WTJA	Jamestown

(was 457kW/182m)

**PA 53 nc nc WPGH Pittsburgh**

(FCC says new TL, but it looks like the old one to me!)

**WI 21 1127 453 WHA Madison**

(TL: 43°03'21"N, 89°32'06"W

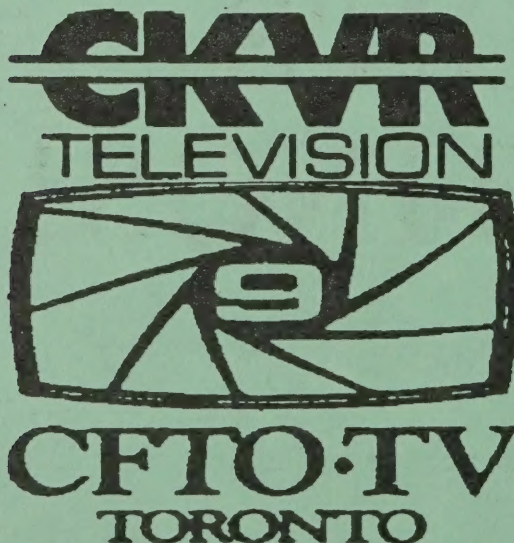
Mineral Pt. & Junction Rds., Middleton.

Was 759kW/381m.)

## NEW STATIONS ON THE AIR

Bradenton, FL: WFCT-66Z

I committed a serious typo last month and moved this station to channel 26! Sorry... Also.. Fred McCormack has some corrections on





**(New Stations, WFCT-66, contd.)**

the facilities:

2240kW/481m

TL 27°24'30"N, 82°15'00"W

3km NE of Verna, 30km E of Sarasota

New Orleans, LA: WHNO-20-

5000kW/276m

TL 29°55'11"N, 90°01'29"W

same tower as WCCL-49 and three LPTVs, in the antenna farm near Gretna.

I saw their GM on the LeSea satellite, announcing the new station on the air, in mid-October. This is part of the Sumrall religious network, with KWHD-53 and WHME-46.

Iron Mountain, MI: WDHS-8-

29.6kW/190m

TL 45°49'14"N, 88°02'39"W

same as the Iron Mountain UHF translators, just north of the town.

Fred McCormack says it went on the air October 19, and it was granted an operating license on the 25th. Bill Draeb has seen it with TBN, and it appears on a TBN list dated Oct. 31.

Greenville, TX: KTAQ-47+

240kW/178m

TL 33°09'32"N, 96°08'31"W

Applied for operating license on October 27.

Danville, VA: WDRG-24-

5000kW/30m

TL 36°24'51"N, 79°20'07"W

I believe this is somewhere near Yanceyville, NC, 50km NE of Greensboro.

Fred's sources say this one came on August 17. I'm almost positive the parameters are different, 5000kW at 30m would almost certainly violate OSHA regulations!

Nogales, Sonora, Mexico: 38/50

No technical details, but the chief engineer of an AM station in Nogales notes two new stations on here on channels 38 and 50. The allocation table indicates both stations should have positive off-sets.

## OTHER STUFF

The Canadian grants are from Saul Chernos via Greg Coniglio. I have no further details, and these are not 100% official. Reportedly CKVR-3 Barrie, the current CBC af-

filiate in that region, has been granted permission to drop the CBC and go independent; thus, the new CBC grants in central Ontario. The Huntsville station is currently operating as a relay of CKVR, I'm not 100% clear on whether this station will switch to relaying the CBC. Bobcaygeon (the site of the channel 54 relay of CFTO) is near Peterborough.

The Lumberton, NC station on 31 will be part of the UNC-ETV educational TV network, relaying WUNC-4 Chapel Hill. In regard to the WUNE-17 changes, I list another set of previous facilities of 1808kW/131m; I suspect these are for a backup antenna but I'm not sure.

In Madison, the WHA-21 changes reflect the upcoming move to the community tower. WISC-3 and WMSN-47 are also moving, and I know WISC has received its construction permit but haven't seen the details come through the FCC yet.

With the upcoming premiere of the Paramount and WB networks, Fox is warning its affiliates not to sign secondary affiliations with these new nets. Several Fox affiliates- KJTL-18 and KCIT-14 are mentioned- have said they'll proceed with secondary-affiliation plans anyway.

Fourteen successful bidders for IVDS licenses have failed to make the downpayments for their bids in time. The FCC has announced that there will be no waivers of the deadlines. Some applicants have threatened to sue to keep "their" licenses. The maximum sanction possible would be for the FCC to re-auction the licenses.

Paxson Communications has purchased Telemundo affiliate WTGI-61 Wilmington/Philadelphia. While no plans for changes have been announced, Paxson's other TV station, WTLK-14 Rome/Atlanta, is reportedly going religious. On a similar vein, Pappas Telecasting, owners of independent KRBK-31 Sacramento and Fox KMPH-26 Visalia/Fresno, has purchased Univision affiliate KREN-27 Reno. A switch to relaying KRBK or KMPH would be quite possible.

Permanent permission has been granted to Fox to transmit programming to their three Mexican affiliates. XETV-6, XHNUL-57, and XHRTA-



### (Other Stuff, contd.)

17 have been carrying Fox programs under temporary authorization, challenged by KUSI-51 San Diego. The Mexican stations cover San Diego, Laredo TX, and Brownsville - Harlingen TX.

The Republican sweep of the November 8 election is likely to have considerable effect on broadcast regulation. It's already had a major effect on those who will oversee the FCC and telecommunications policy. Seven of 23 Congressmen on the House Telecommunications Subcommittee and one of 14 Senators on the Senate Communications Committee either retired or lost reelection.

The most likely changes under Republican control are the repeal of parts of the 1992 Cable Act, removal of restrictions preventing local phone companies from providing cable service, and relaxing multiple-ownership restrictions.

Other changes might include increased pressure for restrictions on sex and violence on TV, and for spectrum fees. Interestingly, the new Republican head of the Senate Commerce Committee, Sen. Larry Pressler of South Dakota, voted for the Cable Act, though his House counterpart opposed it.

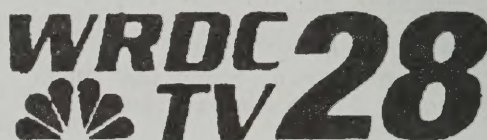
## NETWORK AFFILIATION CHANGES

This appears to be a better title for this section. While Fox was responsible for starting all the changes, many of the recent changes don't involve Fox at all.. Again, changes in boldface have already happened. "Para" is the Paramount Network.

KWGN-2	Denver:	ind => Fox?
KUTV-2	Salt Lake:	NBC => CBS
<b>KOTA-3</b>	<b>Rapid City:</b>	<b>ABC =&gt;ABC/Fox</b>
KCNC-4	Denver:	NBC => CBS
<b>KDUH-4</b>	<b>Scottsbluff:</b>	<b>ABC =&gt;ABC/Fox</b>
KSL-5	Salt Lake:	CBS => NBC
KMGH-7	Denver:	CBS => ABC
KHDT-9	Caldwell:	HSC => Para
	(Boise)	
KUSA-9	Denver:	ABC => NBC
WCAU-10	Phila.:	CBS => NBC
<b>KHSD-11</b>	<b>Lead:</b>	<b>ABC =&gt;ABC/Fox</b>
<b>KSGW-12</b>	<b>Sheridan:</b>	<b>ABC =&gt;ABC/Fox</b>
WYED-17	Goldsboro:	ind => NBC
	(Raleigh)	
WRDC-28	Raleigh:	NBC => ?
KEBN-32	Salem:	ind => Para

The Denver, Salt Lake, and Philadelphia changes aren't 100% official, except that KMGH has confirmed an ABC affiliation, and KUSA has confirmed they're changing networks. The changes are related to CBS' plan to swap WCAU to NBC in return for KCNC, KUTV, and other stations. (WTVJ and WRC are most frequently mentioned) The movement of Fox to KWGN is somewhat less definite.

The switch in the Raleigh, NC market is scheduled to take place on Oct. 1, 1995.



CBS is said to be considering changing its mind about buying WVEU-69 Atlanta. The network has not yet filed for FCC approval of the sale, despite a December 11 deadline for current CBS affiliate WAGA-5 going Fox. The rumor in Broadcasting has Tribune Broadcasting's WGNX-46 going CBS, and their new minority-controlled subsidiary buying WATL-36 from Fox and putting the WB network on channel 36. CBS would have to find some way out of their contract to buy WVEU.

Early ratings from Cleveland and Kansas City, where the earliest Fox/Big 3 swaps happened, are mixed. WJW-8 and WDAF-4 lost 36% and 27% in total households watching, but gained 50% and 29% in people between ages 18 and 34.

500 Sarasota-area viewers have sent letters to the FCC protesting the loss of WWSB-40's ABC affiliation. They, and WWSB management, want the FCC to threaten WFTS-28's license, claiming that FCC regulations were violated by an ABC agreement to yank WWSB's affiliation in return for WFTS signing up.

The Paramount Network has signed affiliation agreements with LPTVs in Evansville, Indiana and Baton Rouge, La., and is negotiating affiliation agreements with LPTVs elsewhere.



# NOT DEAD YET

"Not Dead Yet" will appear on an occasional basis to list construction permits which have been granted extra time to complete construction. It should give you some idea as to which new stations are actually being built, and which have dried up & blown away...

KRPA-44 Rancho Palos Verdes, CA  
WAWD-58 Ft. Walton Beach, FL  
WFDG-28 New Bedford, MA  
WEOU-30 Wilson, NC  
KRXI-11 Reno, NV  
WFVT-55 Rock Hill, SC

## FORUM

Frank Aden, Boise ID:

Frank writes that K22DX Nampa finally appeared sometime during the week of Sept. 26. Programming was from World Harvest TV (the LeSea religious network) and PROSTAR. "No local IDs have been seen and video quality is very poor." KBOI(AM)-KQFC(FM)-KLCI(FM) CE Bill Frahm told Frank their transmitter building is "a little trailer with rocks in it to hold it down!" K22DX seems to have been short-lived; see Bill Hale's report.

Jerry Stuart, Lawton OK:

Jerry reports that two of KSBI-52's LPTVs are on the air. K21DC is a local in Lawton; the KSBI ID also shows K21DF Stillwater. He says the programs on K21DC are parallel to KSBI, but the LPTV runs religious ads while KSBI runs ads for their owners' plumbing business.

Locke Supply holds construction permits for five other LPTVs:

K15DA Tulsa, OK  
K27DM Claremore, OK  
K35CU Ada, OK  
K52DM Wichita Falls, TX  
K54DJ Edmond, OK

Danny Oglethorpe, Shreveport LA:

A quick question, for which I have no answer... Danny notes the similarity between the situation with KUSI-51 challenging XETV's Fox affiliation, and the situation there in the 70s, when KCSW-39 (now KNSD) successfully challenged XETV's ABC affiliation. Danny comments "I thought NAFTA might have some kind

of affect on this kind of protectionism." Good question! I honestly don't know what effect NAFTA has on cross-border delivery of broadcast programs. I have heard rumors to the effect that someone is considering returning one of the "border blaster" high-powered AM stations to an English-language format, but to date they're just rumors.

John Combs, Orlando FL:

"The strange saga of W40AQ Kissimmee continues." First, this station aired ID color bars 24 hours/7days. Occasionally, they'd bring up a real program- 1970's Mexican TV shows (John says they looked like they were taped off-air in Mexico, complete with commercials!), strange home-shopping services, Hispanic preachers.

Now, they've begun running the Panamerican Hispanic network SUR, which airs programs from several Latin American countries. John is wondering how they get their feed: a friend 100 miles to the south has trouble receiving SUR off the satellite down there, it should be nearly unreceivable in Kissimmee. Further, at irregular intervals he's seeing IDs for WEYS-22 (Key West) and W55BV (Homestead).

John asks, "Does WEYS uplink its signal now? Or is this not the live SUR feed after all, but stuff that was taped from WEYS?" Weird...

John Lentz, Muskego WI:

Still no resolution of the CBS affiliation situation in Milwaukee. I can guarantee you you'll see some resolution (even if it's CBS going dark in market #28!) in your January VUD, as despite delays, WITI is still scheduled to switch to Fox four days before my January deadline!

An interview in the Milwaukee Sentinel noted that there was some talk about CBS buying WITI from New World, thus stopping the whole affiliation switch, but they don't seem particularly serious.

Another Milwaukee station, WTV-18, does appear to have been sold; Eddie Edwards of Pittsburgh has requested FCC approval of his purchase from Gaylord Broadcast



(Forum, John Lentz, contd.)

ing. WTVT is currently LMA'd to WCGV-24. When the *Sentinel* asked WCGV president David Smith whether Edwards could then sell the station to CBS, he said "I presume"—but also said he had a pending contract to continue the LMA. Smith insists that he has no intention of affiliating WCGV, or WTVT (assuming he keeps the LMA), with CBS.

Bill Hale, Boise ID:

Going back to K22DX... Bill writes "Channel 22 here was on for a while, but then disappeared." Programming was religion and a "sports ticker", but then the video "went screwy", and the station went off. Bill also mentions an item in a local paper's religion news column about a Three Angels affiliate being built on channel 25— I have nothing on this station yet.

Bill called KHDT-9 after noting they carried the Nebraska football game from ABC. (this because ABC affiliate KIVI-6 was carrying the Idaho game at the same time) Their receptionist told him the station would join the Paramount Network in January.

John Johnson, Billings MT:

John sent a note about the premiere dates of the new Paramount and WB networks. Paramount will start on January 16 with programs on Mondays and Tuesdays. WB will start a week earlier, on Wednesday, January 11, with four sitcoms.

Also from John, a few notes about the weird schedule of Fox programs on some of the secondary affiliates. KSVI-6 is the secondary Fox affiliate in Billings. "Married with Children" is theoretically airing at 1:30 Friday morning; Simpsons at 10:00 Saturday night, etc.— except ABC overruns can push all the Fox programming back. "Married..." has started anywhere between 1:33am and 1:50am...

Fred McCormack, St. Paul MN:

Fred is responsible for a lot of information that appears elsewhere in this column. He also passes along a report from Robert Delaney, who saw W26AS Clarksville, Indiana signing "WJYL" with references to "Kentuckiana". WJYL are the former calls of a religious FM station in that (Louisville) area.

He also spent a night in Duluth in mid-November and did not see KNLD-21. I don't know what's up with this one— if anyone logs it, let me know!

Ernie Wesolowski, Omaha NE:

Thanks to Ernie for forwarding a TBN list dated late October. There are a few interesting listings in there, such as their claim of KAIL-53 Fresno as an affiliate, their listing of WDHS-8 (which has only been on for a few weeks), and their listing of two stations in Toledo (confirming what western NY DXers have seen) and three in Denver.

Maybe more interesting, TBN's Low Power TV Supervisor wrote Ernie that they aren't aware of any station on channel 53 relaying their programming in the Omaha area! They say K45CQ Council Bluffs is the only station authorized to be carrying TBN programs in that area.. (indeed, 53 would be a poor choice of channel with a full-power channel 54 under construction!)

## LPTV WATCH

It's back...

Call; City, Programming

K21DC Lawton, OK; Family Net

K21DF Stillwater, OK; Family Net

K22DX Nampa, ID; World Harvest TV, but later OFF

W26AS Clarksville, IN; "WJYL"

W40AQ Kissimmee, FL; "SUR" South American network // WEYS-22

K53?? Omaha, NE; TBN, but not authorized by Trinity?

W55BV Homestead, FL; "SUR" South American network // WEYS-22

## DX ETC:

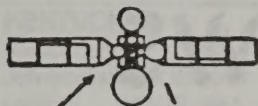
The TV database is nearly complete. A few minor updates have to be completed, and printing arrangements need to be made.

More tropes... Houston on FM (and tentatively on UHF), plus various other Louisiana and Mississippi stuff.. Hope the rest of you are doing well in the tropo department. As you read this, the winter Es season will be rapidly approaching; keep your eyes open!

73 Doug



# SATELLITE NEWS



George W. Jensen  
4604 Anntana Avenue  
Baltimore MD 21206-4220

Nothing really earth or sky shattering this time,  
but there are a few changes to make note of..

ECO Latin American feeds to the US on F2-2

History Channel on C3-12

Fil-Sat (from The Philippines) on G7 Ku 9V

FXM - The Fox Movie Channel on G7-23

American Independent Network on F2-17

BBC feeds and others that were on Intelsat at 53 W  
have disappeared or gone digital

On TDRS at about 40 W -

15 - SPTV - Washington, DC - in NTSC

17 - Teleport London International in Pal and  
sometimes MAC

Inclined Intelsat at 32 W -

1 - Gems to Europe and Latin America

3 - Canal Sur to Europe and Latin America

Hisposat at 31 W

25 Ku - TVE Spain in NTSC

21 Ku - Hispavision in NTSC

Intelsat at 27.5 W

3 - TF1 Paris in Pal and sometimes upsidedown  
video

The Talk Channel on G7 - 22

American Info Channel on S3 - 19 when SportSouth is off

Cupid Adult TV on Anik E2 - 23 VC2

Home and Garden Channel which tested sometime ago

will return full time on G1-20

Newfoundland TV is on Anik E2 - 20

on the Ku side of this bird is also a new movie  
channel on 22 H

No sign of the new Solidaridad 2 yet at 116 W

The Planned Orion Satellites at 37 and 47 W are  
uncertain

Three Angels is now on S3-18

New Services Planned:

The Ecology Channel will be part time -  
satellite unknown

The same for the Golf Channel which will launch soon.

That's all for this month - hope to see you in '30  
'73's

*George*



# FM NEWS

DECEMBER 1994

editor- GREG CONIGLIO  
5100 GLENWOOD DRIVE  
WILLIMASVILLE, NEW YORK 14221  
e-mail: coniglio@geog.buffalo.edu  
e-mail: v131kkdn@ubvms.bitnet

Many of the items listed in this column are taken from the publication:  
M Street Journal - 304 Park Ave. So. 7th Floor - New York, NY 10010  
PHONE (212) 473-4668, FAX (212) 473-4626

## KEY:

&: satellite programming  
AF: new freq. allocation **accepted for filing**  
for a new FM license  
CC: **call change**/new calls assigned  
CL: **city of license** change granted  
CO: new xmtr **co-ordinates**  
CX: a **CP** has expired, and is cancelled  
C1,C2, etc: change in class status  
DA: **directional antenna**  
DE: calls **deleted**, license returned to FCC  
FC: station **format change**

GA: **granted amendment** to table of FM allocations  
GE: station was **granted extension** of a CP  
GX: **granted** replacement of expired CP  
MC: **multiple-city** legal ID  
NC: **no change** yet, on a reported pending grant/change.  
NO: station is **not on** the air  
NS: a **new station** granted a license  
NW: **new station** signs on the air  
PA: **proposed amendment** to change table of allocations  
PC<: a **power change** (increase)

PC<: a **power change** (decrease)  
PG>: **power change granted** (increase)  
PG<: **power change granted** (decrease)  
QC: **frequency change** for this station  
QG: **frequency change granted**  
RA: station **returns** to the air  
RE: station **requests extension** of a CP  
RX: station **requests** re-instatement of an expired CP  
SG: **slogan change** or update  
SI: station is **silent**  
XC: station **granted** a transmitter (xmtr) site change

## ALABAMA:

Andalusia: WXCX 98.1 CC (ex WWSF) "Classic Rock"  
Atmore: WYDH 105.9 RA with country // WASG 550  
Atmore: WDWG 104.1 CC (ex WGCX) "The Dawg"  
Bay Minette: WAVH 106.5 CC (ex WFML), "The New Wave"  
Carrollton: WZPQ 94.1 CC (ex WCKO)  
E.Brewton: WAFN 95.7 NO-RE  
Fairhope: WGCX 92.1 CC (ex WZEW)  
Mobile: WMXC 99.9 CC (ex WKRD)  
Northport: WLXY 100.7 PC> to 11.6 kW, 485 ft, class C3  
CO: 33-12-29 / 87-43-10  
Uniontown: WVFG 107.5 PC> to 6 kW, 328 ft,  
CO: 32-22-38 / 87-31-25

## ALASKA:

Eureka: K206BJ 89.1 NS: 19w(h)- KCHU  
Juneau: \*NS 102.7 AF  
Kenai: KCZP 91.9CC (ex KDLL)  
McCarthy: \*NS 89.7 102 w.(v), -554 feet.

## ARIZONA:

Paradise Vly: KXLL 105.9 NO-RE (2nd)  
Payson: \*\*\* 101.1 GA to add class C3  
Prescott: KGCB 90.9 NO-GE, PG> to 57.8 kW, 2532 ft.  
Prescott Vly: KPPV 106.7 CC (ex KIHx)  
Rural/Chinle: K289AD 105.7 NS-9w(v): KPCL 95.7 NM  
Sierra Vista: KKYZ 101.7 NW  
Wellton: \*\*\* 104.5 GA to add class C2  
Williams: KVTF 96.7 NO-RX (2nd)  
Window Rock: KWRK 96.1 NO-RE (2nd)

## ARKANSAS:

Fayetteville: KBHG 89.3 NO-GE  
Marion: KFTH 107.1 FC to DRE - new rock (Memphis)  
Mauernelle: \*\*\* 96.9 GA for class A  
Monticello: \*NS 99.9 AF  
N.Little Rock: KDRE 101.1 CC (ex KZQA) "DRE"  
Osceola: KOSE 107.3 NW, gold/AC // AM 860 KOSE  
CC (ex KAFW)  
Springdale: KBRS 104.9 FC to SMN "Real Country" &  
CC (ex KBEV)  
Stuttgart: K218BR 91.5 NS-250w: WAFR 88.3 Tupelo, MS  
Wilson: KAFW 94.3 CC (ex KOSE)

## CALIFORNIA:

Auberry: KGST 105.1 FC to Reg. Mexican // AM (Fresno)  
CC (ex KSLK)  
Big Pine: KRHV 93.3 NO-RX  
Chowchilla: KLVN 93.3 CC (ex KXDA)  
Crescent C: KCRE 94.3 NC to 8600w, -318 ft, C3, but GE  
Ft.Bragg: KSAY 98.5 PG> to 3.5 kW, class B1  
Fresno: KKDJ 105.9 adds Mark & Brian show  
Healdsburg: KHBG 95.9 NO-RE  
Inglewood: KACE 103.9 FC to urban oldies (L.Angelos)  
Kingsburg: KLVN 106.3 CC (ex KJET)  
L.Arrowhead: KABE 103.9 CC (ex KAEV)  
Lemoore: KQYZ 104.9 NO-GE  
Magalia: KLVN 88.3 CC (ex KWXP)  
Needles: KWAZ 97.9 CX for 29.5 kW, 1551 ft, C1  
FC to country "Killer"  
Newport Bch: KBCD 103.1 adds alternative wknd overnights  
Orland: KDIG 106.7 FC to Z-rock heavy metal (&)  
Quincy: KSPY 100.3 NO-GE (4th), PG> to 440 w., 2184 ft  
XC: 40-3-36 / 120-54-46  
San Fran: KPIX 95.7 adds CNN Headline News  
San Jacinto: KWRP 96.1 PC> to 250 w, 1565 ft, DA  
San Rafael: KKHI 100.7 PC< to 910w, 797', XC:  
37-59-25 / 122-29-58, CC (ex KTTD)  
Seaside: KLMY 103.9 NO-RE  
Sutter Creek: KRAZ 107.5 PC> to 6 kW, 328ft,  
CO: 38-22-11 / 120-38-36  
Thous. Oaks: KCLU 88.3 NW, information and classical  
Visalia: KSLK 96.1 CC (ex KGYU)

## COLORADO:

Colorado Sps: KTLF 90.5 PC> to 914w(h), 3657w(v), 2054'C1  
Delta: KKNK 95.1 CC (ex KKLK)  
Durango: KWXA 99.7 NO-CX-DE-RX  
Grand Junc: KZKS 105.3 NS-1000w: KZKS 105.3 Rifle, Colo.  
Rifle: KZKS 105.3 chg to 2437', XC granted for  
new CO: 39-25-57 / 108-07-46  
Rural Mancos: K242AJ 96.3 NS: 9w(v)-KJYE 92.3 Grand Junc

## CONNECTICUT:

Guilford: WGRS 91.5 PG> to 2.7 kW, 79 feet  
Waterbury: WWTZ 92.5 PC< to 17 kW, 879 ft,  
CO: 41-33-47 / 72-50-42  
Waterbury: WYSR 104.1 FC to new rock

## DELAWARE:

Bethany Beach: WOSC 95.9 PC> for 16.5 kW, 400 ft.,  
CC (ex WWWV), new calls prob. for "Coast" slogan  
Fenwick I: WLBW 92.1 SG "Wave", so that WWWV 95.9  
would not be able to use that! (95.9 is now "Coast")=



7-A ESTATE WHIM, BOX 487  
FREDERICKTID, SAINT CROIX  
VIRGIN ISLANDS 00840



**FLORIDA:**

Five Points: WCJX 106.5 NW  
 Florida City: \*NS 88.5 AF (S. Fla Edu. Broadcasting)  
 Ft. Lauderdale: WRMA 106.7 CC (ex WTPX)  
 Inglis: WAVQ 104.3 NO-RE (2nd)  
 Inverness: WWUA 90.1 NO-GE (2nd)  
 Key West: WAIL 99.5 FC, adds SMN clas. rock (&)  
 Marco: WGUF 92.7 GA to 98.9 class A  
 Mary Esther: WYZB 105.5 FC to country  
 Miramar Bch: WSBZ 106.3 NW, soft AC / Jones easy (&)  
 they are planning to run jazz on the weekends  
 Naples: \*NS 88.1 AF  
 Naples: WSRX 89.5 NC to 20 kW but RE  
 Naples: WARO 94.5 CC (ex WRAO)  
 N. Smyrna Bch: WJLU 89.7 PC> to 10kw, class C3, DA  
 Newberry: WNFQ 100.5 CO: 29-48-43 / 82-42-33  
 Panama C: WFSW 89.1 NO-GE  
 Pennusco: \*NS 88.3 AF  
 Punta Gorda: WIKX 92.9 GA from class C2 to C1  
 Tampa: WUSF 89.7 NC to 72kW/941' but RE  
 Titusville: WPIO 89.3 NC to 6750w(h), 10 kW(v) but GE  
 Titusville: WGNE 98.1 PC> to 100kW, class C1  
 Trenton: WDJY 101.7 FC-adds Jones "CD Country"  
 Williston: WFEZ 101.3 now carries Tom Joyner show.

**GEORGIA:**

Bolingbroke: WDBS 102.1 NO-RE  
 Bostwick: WMOQ 92.3 NW, country  
 Canton: W201AV 88.1 NS-10w: WCCV 91.7 Cartersville  
 Chatsworth: WQMT 98.9 PG> to 1300 w, 703 ft,  
 CO: 34-44-29 / 84-43-09  
 Griffin: WQUL 97.7 NC to 97.5 C3, 8.5 kW, 554ft,  
 CL: Fayetteville, GA, CO: 33-29-22 / 84-34-07, but RX  
 Irwinton: WVKX 103.7 NW  
 Jasper: W204AU 88.7 NS-10w: WCCV 91.7 Cartersville  
 Pearson: WWFP 101.9 NO-CX (req. reconsideration)  
 Rossville: W238AF 95.5 NS-10w: WCCV 91.7 Cartersville  
 Rossville: WLMX 105.5 PG< to 1550w, 646ft, XC  
 Warrenton: \*\*\* 93.1 GA to add class C3  
 Woodstock: W265AV 100.9 NS-10w: WCCV 91.7 Cartersville

**HAWAII:**

Aiea: KGMZ 107.9 FC (Honolulu), progressive // KAOI  
 95.1 Maui & KAOE 92.7 Hilo, now covers 3 HI islands)  
 Poipu: KSFR 95.9 NO-RE  
 Wailuku: KKUA 90.7 PG> to 7kW, class C

**IDAHO:**

Bonnars Ferry: \*\*\* 92.1 GA to add class A

**ILLINOIS:**

Carlyle: WCXO 96.7 CC (NS)  
 Galva: \*NS 102.5 3 kW, 328 ft.  
 Mt. Morris: WSEY 95.7 NO-RE (2nd)

**INDIANA:**

Connersville: WIFE 100.3 CC (ex WCNB)  
 Evansville: \*\*\* 107.5 GA to add class A  
 Indianapolis: WHHH 96.3 PC> to 640 w., 715 ft.  
 Indianapolis: WGRL 104.5 PC> to 50 kW  
 Washington: WAMW 107.9 FC, adds Jones soft AC (&)

**IOWA:**

Atlantic: KXKT 103.7 PA for CL: Glenwood, IA (class C)  
 Des Moines: KKDM 107.5 NO-RE  
 Keokuk: KYAT 105.9 NO-GE, PG< to 18 kW, 830 ft  
 XC: 40-25-19 / 91-35-42  
 Muscatine: \*\*\* 93.1 GA for class A

**KANSAS:**

Belle Plaine: KANR 92.7 CC (ex KSNS)  
 Girard: KSEK 99.1 FC to adult contemporary (&)  
 Herington: KDMM 96.3 NO-RE (4th)  
 Horton: KERE 93.7 CC (ex KADF)  
 Hutchinson: \*\*\* 97.1 GA to add class C3  
 Silver Lake: \*NS 92.5 one step appl. to change to C3

**KENTUCKY:**

Beaver Dam: \*\*\* 100.7 GA to add class A  
 Jeffersonton: WLSY 101.7 GA to change to 101.3 class A  
 London: WYGE 92.5 NO-RE (2nd)  
 Madinsonville: WKTG 93.9 PC> to 50 kW, 328 ft.  
 McKee: WWAG 107.9 FC to SMN Country (&)  
 Morganfield: WMSK 95.3 PG> to 6 kW, 403 ft.  
 New Albany: WAJE 94.7 CC (NS)  
 Nicholasville: WCKU 102.5 FC to classic rock "Arrow"  
 Paducah: WKYQ 93.3 PC> to 100 kW, 915 ft,  
 CO: 37-2-56 / 88-36-52

Shelbyville: WTHQ 101.3 GA to change to 101.7 class A

**LOUISIANA:**

Boyce: KBCE 102.3 NC to 21 kW but GE (3rd)  
 Clayton: \*\*\* 99.3 PA to add class A, rather than 107.9  
 Franklinton: \*\*\* 98.9 GA to add class A  
 Homer: KZXB 106.7 NO-RE (2nd)  
 Jackson: \*\*\* 104.5 GA to add class A  
 Jena: KJNA 102.7 PA for class A here, from 99.3 A  
 Jonesboro: K209BR 89.7 NS-250w: WAFR 88.3 Tupelo, MS  
 Mamou: KAHK 101.1 amendment A to C3 dismissed  
 Sulphur: KKGB 100.9 FC to rock, CC (ex KTQQ)

**MAINE:**

Houlton: WHOU 100.1 FC to country // WOZI  
 Kennebunkport: WQEZ 104.7 NO-RE  
 Madison: WHAA 97.5 NO-RE (5th)  
 Winslow: \*\*\* 95.3 GA to add class A

**MARYLAND:**

Baltimore: WSSF 104.3 FC to 70s oldies "The Colt" (wonder  
 if Jim Irsay and the Indy Colts will sue them too, hi -gc)  
 Cavalier: \*\*\* 105.1 GA to add class C  
 Crisfield: WLSL 96.9 NO-RE (5th)  
 Grasonville: WRNR 103.1 CC (ex WZXL)  
 Salisbury: WLWV 105.5 see WLBW-92.1-DE (simulcast)

**MASSACHUSETTS:**

Boston: WJMN 94.5 PG> to 17.5 kW, 771 ft.  
 XC: 42-40-50 / 71-04-59

**MICHIGAN:**

Big Rapids: WYBR 102.3 CC (ex WPZX), FC to hot AC "Y102"  
 Dowagiac: WWHQ 92.1 CC (ex WDW), FC to a/c (&)  
 Grand Rapids: WGRD 97.9 adds Kevin Matthews (WLUP)  
 Iron Mtn: WJNR 101.5 NC to 100 kW, 613 ft., but GX (7th)  
 Mio: WCLX 93.9 NW, soft AC // WCLS 100.7  
 Oscoda, "Superstation CLS"

Pentwater: \*\*\* 103.1 GA for class A  
 Traverse C: \*\*\* 104.5 GA for class A

**MINNESOTA:**

Benson: KSCR 93.5 FC to SMN adult con. (&)  
 Nisswa: \*\*\* 93.3 GA to add class C  
 Owatonna: K292EW 106.3 NS-195w: KMSU 89.7 Mankato  
 Preston: KFIL 103.1 PG< to 3.5 kW, 527 ft. XC  
 Worthington: KITN 93.5 CC (ex KLFN)

**MISSISSIPPI:**

Artesia: WQNN 99.9 NC to 47250 w, 505 ft but GE  
 Brooksville: \*NS 98.9 5.8 kW, 675 ft.  
 Centreville: \*NS 89.7 AF  
 Forest: WQST 92.5 NO-RE  
 Jackson: WTYX 94.7 FC to classic rock  
 Ocean Sp: WWXX 92.5 SI  
 Tunica: \*\*\* 96.1 GA for class C3  
 Tupelo: \*NS 90.9 3.5 kW, 426ft (Amer. Family Assoc)  
 Woodville: WLGG 107.7 PA change class A to C3, NO-RX-DE

**MISSOURI:**

Cameron: KNOZ 100.1 CC (ex KDEE)  
 Cape Girardeau: \*\*\* 93.9 PA to add class A  
 Clinton: K285EM 104.5 NS-250w: KCVO 91.7 Camdenton  
 Hermitage: \*\*\* 93.1 PA to add class A



**Missouri:**

Houston: KUNQ 99.3 NC to 33.4 kW but RE, also C2, and  
 XC: 37-5-32 / 92-3-10  
 Pt. Lookout: \*NS 91.7 200 w, 151 ft (College of the Ozarks)  
 Warrenton: KFAV 99.9 PG> to 1.5 kW

**MONTANA:**

Billings: K205CL 88.9 NS: 41w(h)-KEAR 106.9 San Fran.  
 Billings: KRKX 94.1 now class C1, 590 ft,  
 CO: 45-45-37 / 108-27-09  
 Butte: KMSM 91.5 QG to 106.9, 740w(h), -204 ft.  
 CO: 46-00-44 / 112-33-26  
 Great Falls: \*NS 90.9 NO-CX (no calls were granted)  
 Sidney: \*\*\* 95.1 GA to add class C1  
 W. Yellowstone: \*\*\* 96.5 GA to add class A

**NEBRASKA:**

Hastings: KEZH 101.5 PC> to 100 kW, 1004 ft, C2,  
 XC: 40-39-28 / 98-52-4  
 McCook: KKYT 105.3 CC (ex KZMC)  
 Omaha: K299AK 107.7 NS-75w: KYNN 101.9 Lincoln

**NEVADA:**

Henderson: KXTZ 94.1 FC to urban, "94 Jamz"  
 Las Vegas: KXPT 97.1 PG< to 9.5 kW, 3765 ft.,  
 XC: 35-58-03 / 115-30-06  
 Pioche: \*\*\* 98.9 GA to add class A

**NEW HAMPSHIRE:**

Wolfeboro: WLKZ 104.9 NC to 730w, 935 ft, XC, but GE

**NEW JERSEY:**

Cape May CH: WBNJ 105.5 FC to urban AC & // WTTH 96.1,  
 also they add Tom Joyner show  
 Long Branch: W209AR 89.7 NS: 19w- WWFM 89.1 Trenton  
 Newton: WNNJ 103.7 PC< to 2.5 kW, 892 ft,  
 CO: 41-11-12 / 74-46-04

Ocean C: WKOE 106.3 CO: 39-13-45 / 74-40-53  
 Tuckerton: WTUC 99.7 NO-GE (2nd)

**NEW MEXICO:**

Albuquerque: KRZN 101.3 NW, jazz, SG "Horizon"  
 CC (ex KWQK)  
 Albuquerque: KAMX 107.9 FC to new rock, "The Edge"  
 Albuquerque: KKJY 100.3 FC to 70's classic hits  
 Central: KNUW 95.3 NO-RE (4th)  
 Clovis: KLRX 101.5 CC (NS)  
 Socorro: KRRR 92.9 CC (ex KLSC)

**NEW YORK:**

Castorland: W240AV 95.9 NS-17w(h), 21w(v): WMHI 94.7 NY  
 Essex: WCPV 101.3 NW  
 Monticello: WXTM 99.7 NO-GE (2nd), since noted on the air  
 relaying "Jukebox 103.1" (WJUX 88.7 / 103.1 Ft. Lee, NJ)=  
 New York: WRKS 98.7 PG> to 6 kW  
 Oneonta: WSRK 103.9 NC to 2,050 watts but GX  
 Paul Smith: WPSA 89.1 NC to 98.3 / 10w(h), 833ft. but GX  
 Pattersonville: WPGL 90.7 NW, religion // WFGB 89.7  
 Potsdam: WAIH 90.3 NW, variety  
 Pulaski: WSCP 101.7 SI  
 Salamanca: WQRT 98.3 PG. to 3500 w.  
 Stillwater: WJKE 101.3 PG< to 2.9 kW, 469 ft.  
 Whitesboro: WOWZ 97.9 NW, AC(&) // WOWB 105.5 L. Falls

**NORTH CAROLINA:**

Eden: WXRA 94.5 CC (ex WNEU)  
 Elizabeth C: WKOC 93.7 CL: Chesapeake, Virginia  
 Forest City: WBBO 93.3 SG "Q93", modern rock=  
 High Point: WFXF 100.3 CC (ex WWWB), "Fox"  
 Nashville: \*\*\* 99.7 PA to add class A  
 Ocean Isle Bch: \*\*\* 93.5 GA to add class A  
 Southern Shores: \*\*\* 100.9 GA to add class C2  
 Winston-Salem: WFDD 88.5 PC< to 60 kW, 935 ft,  
 CO: 35-55-02 / 80-17-37

**NORTH DAKOTA:**

Grand Forks: \*NS 90.7 2.4 kW, 154 ft. (U. of N. Dakota)

**OHIO:**

Beavercreek: WRVF 103.9 CC (ex WYMJ), "River"  
 Cleveland: WMMS 100.7 FC to new rock  
 Defiance: WZOM 105.7 QC from 105.9, PC> to 6 kW  
 McArthur: WJTD 98.7 NW  
 Pleasant City: \*\*\* 92.1 GA to class A  
 Upper Arlington: WLLD 98.9 CC (ex WRVF)

**OKLAHOMA:**

Bixby: KRMP 105.3 NO-RX (4th), CC (ex KBXT)  
 Langston: KALU 90.7 NC to 89.3, 151w, 200' but GX  
 Pauls Valley: KGOK 97.7 PG. to 16 kW, 410 ft,  
 XC: 34-42-14 / 97-15-46  
 Pawhuska: \*\*\* 104.9 GA for class A  
 Poteau: KBSY 107.3 FC to southern gospel  
 Stillwater: \*NS 98.1 6 kW, 328 feet  
 Sulphur: \*NS 90.7 AF  
 Taft: KHJM 100.3 NC to 3900w, 410 ft but GX, also  
 XC: 35-48-42 / 95-34-12

**OREGON:**

Brownsville: KLRF 102.3 CC (ex KGAL), FC to alternative  
 Burns: \*\*\* 92.7 GA for class A  
 Canyon City: \*NS 94.5 190w, 1729 ft.  
 Gold Bch: KGBR 92.7 NC to 42,060w, 1378', GE (3rd)  
 Lakeview: KCTL 93.5 CC (ex KQIK)  
 Lincoln C: KSND 95.1 NO-GE (2nd)  
 Portland: KXL 95.5 FC to 70s oldies  
 Redmond: KLRR 107.5 PC< to 27.5 kW, 663', C2  
 Seaside: \*NS 98.9 6 kW, 327 ft.  
 Sisters: KPXA 104.1 NO-RE (4th)

**PACIFIC ISLANDS:**

Garapan: \*\*\* 101.1 GA to add class C

**PENNSYLVANIA:**

Altoona: WFGY 98.1 CO: 40-34-01 / 78-26-32 (941')  
 Bristol: \*NS 91.7 10w(h), 100w(v), 69 ft.  
 Clearfield: W297AB 103.7 NS-12w: WDBA 107.3 DuBois  
 Grove City: \*NS 88.9 AF (Grove City College)  
 Mercerburg: WSRT 92.1 NC to 2700w, 466 ft, RE (5th)  
 N. Kensington: WZPT 100.7 FC to 70s oldies "The Point"  
 CC (ex WQKB)  
 North East: WRKT 100.9 NC to 4200w, 797ft, DA, R  
 Philadelphia: WIOQ 102.1 FC to mainstream CHR  
 Pittsburgh: WDSY 107.9 NC to 17.7 kw (but GE)  
 Pt. Matilda: WIKN 107.9 NW, CC (ex WXXZ), rock-CHR  
 Shamokin: WISL 95.3 FC to oldies (&)  
 Sharpville: WRKU 95.9 RA with classic rock (&)  
 CC (ex WHTX), format moves up dial from 95.1

**PUERTO RICO:**

Cidra: WBRQ 97.7 PG> to 4.4 kW, 899 ft.

**SOUTH CAROLINA:**

Bamberg: WWBD 92.1 GA: 92.1 A to 95.7 A  
 Bluffton: WLOW 106.9 CX for 100 kW, 809 ft, XC  
 CC (ex WHHR)  
 Kingstree: \*\*\* 94.1 GA to add class A  
 Pt. Royal: WNCK 99.7 CC (ex WLOW)  
 Rock Hill: W231AF 94.1 NS-220w: WRHM 107.1 Lancaster

**SOUTH DAKOTA:**

Belle Fourche: \*\*\* 102.1 GA to add class C3  
 Carpenter: K261CH 100.1 NS-250w: KCGN 101.5 Ortonville, MN  
 Flandreau: \*\*\* 107.9 GA to add class C3  
 Pierre: KLXS 95.3 NC to 48 kW, 502 ft., but GE (2nd)  
 Rapid City: KFVS 100.3 CC(ex KGGM), FC classic rock "Fox"  
 Spearfish: KBHU 89.1 PG> to 100w(v), -348 ft., class A  
 Winner: \*NS 98.5 AF



**TENNESSEE:**

Bulls Gap: \*\*\* 98.7 PA to add class A  
 Crossville: WEGE 102.5 noted in mono  
 Elizabethton: WAEZ 99.3 PA : from class C3 to C2  
 Jeff. City: WEZG 99.3 PA: change to 99.1 A and  
 city of license to Cumberland Gap  
 Knoxville: WUTK 90.3 NC to 800w(v), 70ft, but GE  
 Knoxville: WJXB 97.5 SG "B-97.5"  
 Monterey: \*NS 104.7 AF  
 Norris: \*\*\* 106.7 PA to add class A  
 Sparta: WSMT 105.5 PG> to 2,350 watts  
 Sparta: W219AD91.7 noted on: WMBW 88.9, relig., mono  
 Tiptonville: WAAT 101.3 NO-RE  
 Woodbury: WBOZ 104.9 NW, country "Z105"=

**TEXAS:**

Abilene: KFXJ 92.5 NO-RE  
 Amarillo: KBUD 99.7 FC to 70's oldies, CC (ex KFMA)  
 SG "Proud to be your Bud"  
 Beeville: KTKO 104.9 CC (ex KIBL), FC to Tejano, NC to  
 105.7 and 25 kW/328 ft, RE (2nd)  
 Centerville: KAJG 105.9 CC (NS)  
 Booker: K218BS 91.5 NS-193w: KJIL 99.1 Copeland, KS  
 Denson: KDSQ 101.7 FC to classic rock  
 Denver City: \*\*\* 97.5 GA to add class C2  
 Eagle Pass: KEPX 89.5 NW, religion  
 Franklin: KLTR 101.9 NW  
 Friona: KGRW 94.7 NO-GE (5th)  
 Gainesville: KECS 107.9 NO-RE, PG< to 2,750w, 1791 ft.  
 XC: 33-44-11 / 97-04-04

Ganado: \*NS 104.7 AF  
 Georgetown: KNNC 107.7 PG> to 9100 w.  
 Harker Hts: KLTx 105.5 CC (ex KLFx)  
 L.Jackson: KRQT 107.5 CC (ex KZFX), FC to new rock and  
 "Rocket" slogan (Houston)  
 Nolanville: KLFx 107.3 NW, classic rock, CC (ex KKFF)  
 Pt.Comfort: \*NS 94.1 25 kW, 328 ft.  
 San Marcos: KEYI 103.5 FC to oldies  
 Seadrift: \*NS 105.1 6 kW, 328 ft.  
 Victoria: KXBJ 89.3 NW

**UTAH:**

Richfield: KKWZ 93.7 NC to 33720w, 3029ft, but GE (5th)

**VERMONT:**

Barre: \*NS 89.9 AF (Christian Ministries)

**VIRGIN ISLANDS:**

Christiansted: WVIQ 99.5 FC to soft AC (&)

**VIRGINIA:**

Bedford: WYMY 106.9 FC to adult std.-& (Roanoke)  
 Charlottesville: WLPL 107.5 NO-GE  
 Hester: WDYL 92.1 NC to 93.1, 1350 w, 492 ft, but RE  
 Lovington: WIQO 100.9 PG< to 560w, 1059', XC to  
 37-47-36 / 79-55-57  
 Ulpeper: WPVb 89.9 NO-GE (2nd), PG< to 8.5 kW, 584 ft.  
 Trick: \*\*\* 93.1 PA to add class A  
 Inton: WAJB 101.5 CC (NS)  
 Foodbrige: WJZW 105.9 CC (ex WCXR), "Jazz"

**WASHINGTON:**

Abum: KGRG 89.9 NC to 250 w., 367ft, DA, and  
 CO: 47-15-23 / 122-13-7, but GE (2nd)  
 Ashmere: KZPH 106.7 FC to classic rock (&)  
 Ma: \*\*\* 102.1 GA to class A  
 Oldendale: KYYT 102.3 PG< to 748 w., 1788 ft, C3, XC  
 Abton: \*\*\* 98.7 PA to add class A  
 Nak: \*\*\* 104.3 GA to add class C2  
 Isco: KGDn 101.3 PC> to 10.5 kW

**EST VIRGINIA:**

Catalico: WTUN 98.7 NW  
 Juvenswood: Wfyz 93.1 NO-GE

**WISCONSIN:**

Cleveland: WKTT 103.1 QG to 98.1, 5100w.  
 DePere: WJLW 95.9 NC to 25 kW, 272 ft, but GE (2nd)  
 La Crosse: WSPL 95.7 FC to adult rock WW1 (&)  
 Michicot: WGBM107.5 CO: 44-20-30 / 87-47-10  
 Neillsville: WCCN 107.5 CO: 44-35-31 / 90-37-13 (587 ft)  
 New Holstein: KFKQ 92.9 NO-GX (2nd)  
 Spooner: \*\*\* 106.3 GA to add class A  
 Tomah: WUSK 94.5 CC (ex WZFR)  
 Wausau: WRMW 91.9 two new stations here to share time:

State of Wisconsin (56w-823 ft.) & White Pine Community  
 Broadcasting (with 380 watts, 426 ft) (call of second station  
 is unknown at this time)

Wausaw: WCLQ 89.5 NC to 8.5 kW, RX

**WYOMING:**

Buffalo: KLGT 92.7 NC to 92.9, 12kW (h), 3 kW (v)  
 1115ft, CO: 44-36-08 / 106-55-52, but RE (6th)  
 Casper: \*\*\* 97.3 GA to add class A

**CANADA:**

**ONTARIO:**

Ajax: CJKX 95.9 NW, country, "KX-96"  
 Barrie: CIQB 101.1NW, noted testing with adult  
 contemporary and a "B101" slogan  
 North Bay: CHUR 840 QG to 100.5, 100kW=  
 Tobermory Park: \*\*\* 90.7 NW, Environment Canada weather  
 station noted on the air (Bruce Peninsula), supposed to  
 be 50 watts, calls are unknown. Expect more of these.

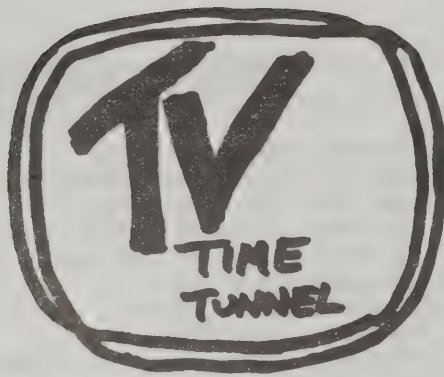
**QUÉBEC**

Beauceville: \*NS 102.5 to be French, religion, oper by  
 Fondation Humanité 2000, power unknown  
 Montreal: \*NS 91.3 to be French, religious, via  
 Radio Ville-Marie (power unknown)  
 Quebec City: \*NS 90.9 to be French, religion, oper by  
 Fondation Humanité 2000, power unknown

•Speaking of these three religions stations, this represents a  
 change in policy by the CRTC, according to an official news  
 release dated October 14th. "The proposals filed by both  
 applicants comply with the elements of our new policy on  
 religious broadcasting, particularly with regard to ethics and  
 balance in the presentation of alternative viewpoints", said  
 CRTC Chairman Keith Spicer. Programming will be mainly  
 religious, with a thematic or pedagogical approach. Advertising  
 on Radio Ville-Marie will be limited to no more than 6 minutes  
 per hour, with 60 hours a week out of 126 hours of weekly  
 broadcast expected to be religious. The license will expire on  
 8/31/99. Fondation Humanité 2000 will broadcast 57 1/2 hour  
 of exclusively religious programming a week, with no advertis-  
 ing.

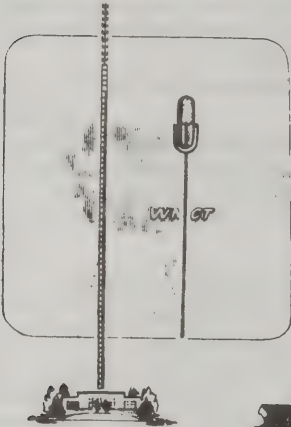
•Idaho State Uiveristy may have its own station for the first  
 time in 22 years, according to the *Idaho Statesmen*. A student  
 group has been awared 91.1 Mhz bu the FCC. University  
 administration will support the idea of a new station if there is  
 enough studen t interest, according to Radio Free ISU chair-  
 man Lane Startin. A signature drive has been started, aiming  
 for 3,000 people. Starten claimed the station would enhance  
 the "educational atmosphere" at the Pocatello School.  
 Frank Aden, who sent in that article, also mentions that the IRCA  
 convention will be right there in Boise, July 14-16, 1995. Thanks  
 to all who contributed to this column. In addition to Frank: Saul  
 Chernos, Matt Sittel, Joe Fela, Tim McVey, Doug Smith, and  
 Steve Ryan. Thanks also to M Street Journal for all their support  
 during this year, and we look forward to another year of co-  
 operation! I hope everyone has a great Holiday season!





EDITED FOR THE WTFDA AND "VHF/UHF DIGEST"  
BY TOM BRYANT, 849 TODD PREIS DRIVE, NASH-  
VILLE, TN, 37221 - Phone/Fax (615) 646-2000

THANKS TO WTFDAer WILLIS MONK OF COLLEGE-  
DALE, TN FOR THIS COLLECTION OF LETTERHEADS  
AND LOGOS DATING BACK TO THE MID 50s. THE  
WWOR-TV LOGO IS OF PARTICULAR INTEREST...AS  
THE CITY OF LICENSE IS WORCESTER, MA. THE  
KHAD CALL IN LAREDO STANDS FOR THE OWNERS  
'HANK AND DAVE'. MUSKOGEE/TULSA'S CHANNEL  
8 IS REPRESENTED BY TWO SETS OF CALLS; AND  
KFJZ-TV WAS LICENSED TO FORT WORTH, TEXAS.



WMC AM  
WMC FM  
WMCT TV



KCCC-TV P. O. BOX 1596  
SACRAMENTO, CALIFORNIA

## The Commercial Appeal Stations

MEMPHIS, TENNESSEE

Channel 20

LELAND OFFICE BUILDING  
SPRINGFIELD, ILLINOIS

KTAR

Television and Radio

P. O. BOX 711 / PHOENIX, ARIZONA

10  
VHF-TV  
CHANNEL

BET-TV  
601 SEVENTH AVENUE  
SACRAMENTO, CALIFORNIA

WUCS-TV



KAVE  
CBS ... SWN  
CARLSBAD, NEW MEXICO



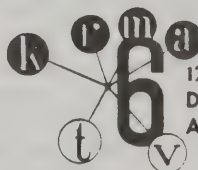
Atlanta, Georgia



THE ONLY VHF CHANNEL  
BETWEEN SHREVEPORT AND DALLAS

KLT TV

CHANNEL 7  
BOX 887  
TYLER, TEXAS



12th at Welton Streets  
Denver 4, Colorado  
AComa 2-4561



KHAD-TV

TELEPHONE 3-3674  
POST OFFICE BOX 1378  
CHANNEL 8  
826 CONVENT AVENUE  
LAREDO, TEXAS

AFFILIATED WITH THE AMERICAN BROADCASTING COMPANY

Bay City Television  
XETV - CHANNEL SIX  
4229 PARK BOULEVARD • SAN DIEGO 3, CALIFORNIA



**K** Channel 3

60,000  
Watts

**B**  
**T**  
**X**

EAST 29th • BRYAN, TEXAS  
RIDGECREST STATION P. O. BOX 3237 Victor 6-5728

**T V**

**WJBF**  
CHANNEL... **6**  
AUGUSTA • GEORGIA

**KTUL-TV**  
Tulsa, Oklahoma  
Box 9697

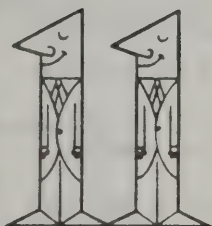


**KTUX Channel 8**  
Muskegee - Tulsa  
ABC-TV

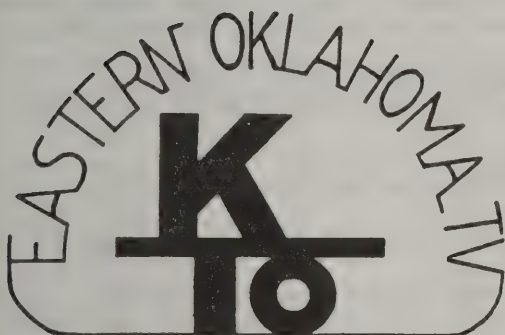
**TULSA BROADCASTING CO.**

P.O. Box 9697  
Tulsa, Oklahoma

good lookin'  
channel



**KFJZ-TV**



**CHANNEL 10**

252,000 WATTS POWER

750 FT. TOWER

THE SOUTHWEST'S MOST POWERFUL VHF TV STATION  
EQUIPPED FOR NETWORK COLOR

**KTEN - ADA, OKLAHOMA**

BOX 10

Dial FE 2-2211

TWX 288

**KTHV**

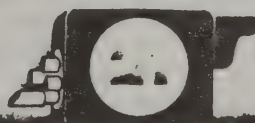
316,000 WATTS CHANNEL



ARKANSAS TELEVISION COMPANY  
P. O. BOX 269, LITTLE ROCK, ARKANSAS

**WPTA**

channel



BUTLER ROAD • FORT WAYNE, INDIANA

• ANTHONY 7125



Television Network

• A Sarkes Tarzian Station



# SOUTHERN FM DX

DECEMBER 1994

Danny Buntin  
1312 N. Skyline  
Stillwater, OK 74075

DEADLINE: 14th

SOUTHERN FM DX is for reporters from: AL, AR, AZ, CA, CO, DE, DC, FL, GA, HI, KS, KY, LA, MD, MO, MS, NC, NM, NV, OK, SC, TN, TX, UT & WV. Merry DXful Christmas!!

## MORE FROM PAT DYER's SUMMER ES

### SOME HALLOWEEN TIME TROP IN UP TO 677 mi.

Douglas E. Smith, 1385 Old Clarksville Pike, Pleasant View, TN 37146-8098

Equip.: Technics ST-G50, Archer VU-160 at 15'

10/5 gw

0000 WBOZ 104.9 TN Woodbury, "Z105", k\$, 64  
new semi-local, ouch...

10/18 tr

0850 WZZK 104.7 AL Birmingham, "WZZK 104.7  
FM" 201

0900 WQBM 103.7 AL Gadsden, calls 175

0908 WKRG 99.9 AL Mobile, "Coast 100 FM" 396

0922 WTXI 98.1 AL Fayette, "W. Alabama's  
auto auction" 215

0931 WMJX 96.5 AL Birmingham, legal ID 203

0950 WKMX 106.7 AL Enterprise, "106.7 KMX" 349

1026 WHHY 101.9 AL Montgomery, "The New Y102"

1034 WZRR 99.5 AL Birmingham, promo for  
AL football 206

1039 WRJB 98.3 TN Camden, "J Rock & Roll"

1043 WKXJ 97.3 TN South Pittsburg, "97-99  
Kicks FM" 127

1045 unID 96.1 AL? "Hot Country 96 WMYC",  
strongly suspect Mobile.

1101 WMVB 91.9 AL Dixons Mills, calls 296

Missed a good opining in the early morning hours of Oct.17; had just driven across the state and was too sleepy to DX. All I caught was WJSP-23. Tom had Tallahassee on the TV. At 0900 on the 18th, I noticed two stations on 101.5, both carrying the same network news-cast but with different delays, resulting in an echo sound. This is pretty common on AM, but it's the first time I've heard it on FM! I think the culprits were WJOR and WTWL.

Eric Bueneman (NOUIH), 631 Coachway Lane, Hazelwood, MO 63042-1327 CDT

Equip.: Realistic STA-90 AM/FM stereo receiver with Radio Shack VU-110 antenna and Archerotor at 33 feet above ground level.

8/29 tr

2105 KJMO 100.1 MO Jefferson City, o  
"Oldies 100.1", between locals KFAV 99.9

and KNJZ 100.3 100

2110 WSIX 97.9 TN Nashville, k, calls 270

2111 WWTN 99.7 TN Manchester-Nashville  
Sounds minor league baseball 320

2115 WLAC 105.9 TN Nashville, r(AC/CHR), 270

"Star 106", splash from KPNT

2315 WOOZ 99.9 IL Harrisburg, "Hot New  
Country Z-100", in KFAV null 130

2322 KBOB 99.7 IA Muscatine, k "Bob 99.7"  
ex-KFMH 180

2340 WMUF 94.1 TN Paris, r(AC/CHR)"94.1  
WMUF", mixing with WMIX 200

10/14 tr

0015 KCLR 99.3 MO Boonville, "Clear 99 FM",  
k, splash from WKDQ 99.5 and KFuo 99.1 130

0020 KLGs 95.1 MO Versailles "KS-95", Lake  
of the Ozarks mentions, k, over WDZQ 130

0030 KMZU 100.7 MO Carrollton, k, over KGMO  
after KZMM sign off 210

0035 KCMO 94.9 MO Kansas City, "Oldies 95",  
o, splash from KSHE 94.7 225

0036 WQCY 99.5 IL Quincy, "99-Q" r(CHR) 110

0037 KGRC 92.9 MO Hannibal, "Variety 93, r  
(Hot AC), local-like signal 90

0049 Cape Girardeau, MO 100.7, 102.9 115

10/30 tr, ms

2321 KODA 99.1 TX Houston, "Sunny 99.1  
Houston wx 67

2343 WTWL 101.5 TN McKinnon, "Thunder 101.5  
FM", new slogan and format (country)

2346 KSAB 99.9 TX Robstown, meteor bursts  
of Mexican music.

10/31 tr

0013 KOLL 94.9 AR Maumelle, "Cool 95" 319

0024 KBCN 104.3 AR Marshall, Branson ads 313

0043 WOGY 94.1 TX Germantown, "Froggy 94"  
rare due to WMUF and WMIX 180

0321 KQOK 106.5 TX Galveston, "Tejano 106" 663

0342 unID 96.9 "Z-97" w/pop or hot adcon

0355 KPNT 105.7 MO Ste. Genevieve, "105.7  
The Point" 230

0932 WKJQ 97.3 TN Parsons, Lexington  
ad 76

0937 WXFL 96.1 AL Florence, news of death  
of founder of WOWL-15 123

10/16 tr

2325 Columbia, MO 91.3, 98.3, 101.5 115

10/18 tr

2244 KOPN 89.5 MO Columbia, jr, local 105

KCFM off

2247 KTXR 101.3 MO Springfield, bm, 190

2249 WNNS 98.7 IL Springfield, rm "Light  
Rock 99" 80

2254 WQLZ 92.7 IL Taylorville, rp(AOR),  
mixing with KLOZ 80

2254 KLOZ 92.7 MO Eldon, r(Hot AC), "Z-93"  
mixing w/WQLZ 130

2305 KBDZ 93.1 MO Perryville, "B93-1", k 70

2306 KBIA 91.3 MO Columbia, \$ contemp. 105

2309 WSSU 91.9 IL Springfield, j 80

2314 KTXY 106.9 MO Jefferson City, rp(AOR)  
"Y-107" 100

2330 KBXR 106.1 MO Ashland, rp(altern.) 100

2348 KGNV 89.9 MO Washington, Christian  
talk, o/WLCA 50

Decent tr opening on Aug. 29, basically the entire mid-Mississippi Valley and a fair chunk of the Ohio Valley covered, most of the logs were on TV, however. I was also able to work a ham in Evansville, IN via the 146.69 MHz(negative offset)repeater in Owensboro, KY using my handheld transceiver and a five/eights wave ground plane antenna.



In that same opening, I also managed to get into three repeaters on 147.03 MHz(positive offset) at once, which told me how good conditions really were! Locally, I am hosting a new specialty show on KCFV 89.5, called "The Alternative Time Machine", which features Modern Rock classics from the 1970s, '80s and early '90s. It's on Fridays from 2000 to 2400 CLT(that's Central Local Time, for those who don't know what it is, hi!).

KLGS 95.1 is on the air and DX ready, with a country format(very popular nowadays) for the Lake of The Ozarks area. The October 14 opening (nice gift for my birthday,hi!)got into the Kansas City area, with very strong signals from the Lake of The Ozarks, Hannibal/Quincy and even my "barometer station" for southwest Indiana/western Kentucky(WKDO 99.5). Springfield, IL stations were in like locals and Cape Girardeau stations were also in. Also noted KCLR 99.3(last noted in 1984 as KDBX) and KCMO 94.9(last noted in 1985 as KCPW). Propagation also noted on local VHF channels 4 and 5 on television with TV stations from Columbia/Jefferson noted at semi-local strength. October 18 brought an opening extending from one Springfield(MO)to the other(IL). It wasn't unusual to hear tow stations battling it out on a few frequencies(as noted with 89.9, 92.7 and 106.1). It was the first time I had received KGNV 89.9 with usual local WLCA on the air (in fact, nearly obliterating them!), KGNV comes in best after WLCA's sign off. (Well, I should hope so. DB) This summer, the stations that has most frequently visited this QTH has been WSIU 91.9 Carbondale, IL. It has a near-local signal nightly after WSSU Springfield,IL signs off. While I concentrate on AM DX,(Yuck I hate Antique Modulation DXing; it's too noisy. DB) I still remain on the lookout for any off-season openings. 73 and good DX from NOUTh.

Pat DyerWA5IYX, 5315 Silvertip Drive, San Antonio, TX 78228-2744

Equipt.: Realistic TM-1001 tuner (two I.F. mod. w/150 kHz filters) into Allied 426 52-ohm step-attenuator box used to reduce local local intermod/overload when needed, 6-e Archer antenna at 20' with rotor. CST used, new underlined, all Es unless noted.

## 07-01-94:

1730 WKRY	93.5	FL	1087
1733 WAVK	106.3	FL	1126
1747 WEOU	92.5	FL	1099
1753 WESC	92.5	SC	1009

## 07-03-94:

0748 KWKH	94.5	LA	353
0757 WSKX	92.3	GA	1025
0803 WKKZ	92.7	GA	951
0811 WMKS	92.3	GA	912
0813 WYAV	104.1	SC	1182
0817 WDOG	93.5	SC	1046
0820 KYKS	105.1	TX	269
0821 WHLZ	92.5	SC	1128
0827 WZNY	105.7	GA	1022
0830 WYAK	103.1	SC	1182
0833 WAGW	100.9	GA	1006
0834 WNMB	105.9	SC	1200
0838 WGTR	107.9	SC	1182
0847 WXXM	97.7	SC	1182
0852 WZXS	103.9	NC	1275
0908 WKTC	96.9	NC	1257
0933 WSPA	98.9	SC	1027
0936 WKRR	92.3	NC	1172
1013 KGFX	92.7	SD	1033
1015 KBRB	92.7	NE	906
1946 KLZY	92.5	WY	1187
1952 KMGH	93.9	AZ	843
1959 KSSD	92.5	UT	1018
2011 KJOL	90.3	CO	870
2013 KJYE	92.3	CO	873

## 07-04-94:

0910 WCEN	94.5	MI	1236
0913 WLAV	98.9	MI	1182
0914 WAIR	92.5	MI	1323
0916 KDAL	95.7	MN	1244
0921 WLHT	95.7	MI	1176
0922 WKJZ	94.9	MI	1338
0925 WZTR	95.7	WI	1110
0925 WKTI	94.5	WI	1110

0930 WNIZ	98.9	IL	1078
0933 WBCM	93.5	MI	1309
0937 WMTE	97.7	MI	1221
0940 WWLZ	96.7	MI	1252
0940 WSTQ	97.7	IL	975
0945 WIIL	95.1	WI	1080
0946 WCBF	92.7	IL	1054
0951 WMYX	99.1	WI	1097
0952 WGFH	105.1	MI	1342
0958 WCHW	103.9	MI	1329
1155 KMFY	96.9	MN	1258
1246 WXLK	92.3	VA	1187

## 07-05-94:

0947 XHD	106.5	DF	690
0956 XHCT	95.7	MR	725
1001 XEDF	104.1	DF	690
1003 XHNX	98.9	MC	700
1013 <u>XHIMEF</u>	94.5	DF	690
1033 XHZM	92.5	PUI	715
1057 X---	97.7	GR	870
1102 XHZIH	90.5	GR	840
1115 XHNY	93.5	GN	630
1120 XHBIO	92.3	GR	670
1606 KSSD	92.5	UT	1018
1608 KDAG	96.9	NM	745
1611 KREC	98.1	UT	1002
1613 KXTC	99.9	NM	723
1617 KPCL	95.7	NM	747
1620 KOOL	94.5	AZ	836
1632 KSOF	104.3	UT	1087
1636 KBZN	97.9	UT	1133

(144-MHz to NV)

1650 KRBO	105.1	NV	1050
1652 KRCY	105.9	AZ	996
1652 KJUL	104.3	NV	1077
1654 KVWM	93.5	AZ	746
1655 KRLV	106.5	NV	1052
1657 KEYV	93.1	NV	1077
1658 KJYE	92.3	CO	873
1659 KKOR	94.5	NM	697
1700 KRIM	104.3	AZ	829
1720 KRFM	96.5	AZ	741



## SOUTHERN FM DX

## Dyer, cont.

DECEMBER 1994

7/5

1720	KHWY	98.9	CA	1031
1724	KKFR	92.3	AZ	836
1725	KDKB	93.3	AZ	836
1729	KUMT	105.7	UT	1087
1731	KOLT	105.9	NM	634
1733	KMLE	107.9	AZ	836
1752	KMTS	92.7	CO	853
1759	KQSW	96.5	WY	1014
1800	KMGN	93.9	AZ	843
1801	KPKY	94.9	ID	1204
1808	XHBA	104.1	BCN	1019
1811	KRQQ	93.7	AZ	766
1851	KROE	94.9	WY	1151
1854	KWYO	96.5	WY	1150
1901	WMMQ	92.7	MI	1188
1906	WFGN	93.5	OH	1175
1907	CKLW	93.9	ON	1233
1908	WJLB	97.9	MI	1239
1912	WVKS	92.5	OH	1181
1926	WTTS	92.3	IN	984
1927	WGRD	97.9	MI	1166
1934	WLHT	95.7	MI	1176
1935	WEWN	104.1	IL	936
1939	WJTW	93.5	IL	1019
1945	WLAV	96.9	MI	1182
1954	WONU	89.7	IL	1008
1958	WYCA	92.3	IN	1042
2007	WZTR	95.7	WI	1110
2013	WDEK	92.5	IL	1017
2014	WKTI	94.5	WI	1110
2016	WTKM	104.9	WI	1107
2018	WVVX	103.1	IL	1061
2022	WNIZ	96.9	IL	1078
2025	WBGE	92.3	IL	928
2031	WBWI	92.5	WI	1118
2034	WOZZ	93.5	WI	1176
2042	KVOL	105.9	LA	396

07-08-94:

0802	KWRH	94.5	LA	353
0833	WCOL	92.3	OH	1139
0843	WBKR	92.5	KY	868
0849	WKDD	96.5	OH	1252
0849	WOXY	97.7	OH	1044
0850	WQMX	94.9	OH	1243

07-09-94:

1614	WKQL	96.9	FL	1019
1623	WPAP	92.5	FL	802
1625	WQFW	95.7	GA	917
1635	WQIK	99.1	FL	1019
1636	WJET	92.7	FL	1015
1641	WGLF	104.1	FL	860
1646	WTBB	97.7	FL	779
1647	WUMX	103.1	FL	861
1647	WHJX	101.5	GA	1009
1649	WSTF	97.9	FL	1035
1651	WKEX	106.3	GA	1013
1652	WROC	107.3	FL	1019
1702	WWSG	106.1	GA	
1704	WKUE	105.1	GA	977
1711	WHLZ	92.5	SC	1128
1715	WKKZ	92.7	GA	951
1719	WYBR	98.1	SC	1116
1725	ITOI	108.9	AL	765
1726	WPEZ	107.9	GA	915
1727	WSB	98.5	GA	888
1729	WSSX	95.1	SC	1122
1729	WMXA	96.7	AL	814
1729	WCEH	103.9	GA	917

1741	WYAV	104.1	SC	1182
1743	WWXM	97.7	SC	1182
1746	WFEH	92.1	GA	985
1747	WBAW	99.1	SC	1047
1750	WYAK	103.1	SC	1182
1752	WZNY	105.7	GA	1022
1756	WARQ	93.5	SC	1079
1840	WVCO	94.9	SC	1195
1849	WKTC	96.9	NC	1257
1853	WBKR	92.5	KY	868
1903	WHRZ	97.7	KY	828
1904	WTQR	104.1	NC	1155
1909	WNCI	97.9	OH	1140
1918	WKID	95.9	IN	1007
1925	WZKL	92.5	OH	1254
1927	WRBI	103.9	IN	1013
1951	WVKS	92.5	OH	1181
1951	WKKJ	93.3	OH	1116

07-09-94:

1747	WDOG	93.5	SC	1046
1748	WKTI	94.5	WI	1110
1753	WESC	92.5	SC	1009
1756	WRRF	92.3	NC	1172
1758	WMUU	94.5	SC	1018
1759	WRIX	103.1	SC	999
1805	WCEN	94.5	MI	1236
1816	WSKX	92.3	GA	1025
1824	WKKZ	92.7	GA	951
1826	WHLZ	92.5	SC	1128
1830	KKUS	104.1	TX	278
1831	WWXM	97.7	SC	1132
1832	WYAK	103.1	SC	1182
1833	WYAV	104.1	SC	1182
1834	WKSX	92.7	SC	1026
1835	WTQR	104.1	NC	1155
1836	WNMB	105.9	SC	1200
1840	144-MHz to W4			
1854	WZXS	103.9	NC	1275
1855	WXTC	96.9	SC	1139
1900	WFXH	106.1	SC	1071
1901	WSSX	95.1	SC	1122
1907	WEYZ	94.5	GA	971
1908	WRBT	94.9	IL	872
1930	WQLZ	92.7	IL	873
1931	WVOH	93.5	GA	964
1931	KLYP	92.7	AR	509
1954	WFCH	94.9	GA	888

07-10-94:

1052	KCMJ	92.7	CA	1076
1054	KZEZ	93.5	UT	1010
1100	KSSD	92.5	UT	1018
1404	XHRM	92.5	BCN	1111

07-11-94:

0838	WCIC	91.5	IL	918
0847	WDEK	92.5	IL	1017
0856	WBWI	92.5	WI	1118
0909	WOLX	94.9	WI	1082
0913	KKMI	93.5	IA	859
0915	WPRE	94.3	WI	1025
0919	KOKZ	105.7	IA	963
0920	KBOE	104.9	IA	863
0922	WGLX	103.3	WI	1137
0926	KKSI	101.5	IA	870
0928	KOEL	92.3	IA	985
0928	KTUF	93.7	MO	815
0929	WYTE	96.7	WI	1149
0930	WLJY	106.5	WI	1151
0934	KTWA	92.7	IA	866
0935	WOFM	94.7	WI	1169



## SOUTHERN FM DX

7/11

1027	WOZZ	93.5	WI	1178
1029	WWQM	106.3	WI	1064
1031	WJMQ	92.3	WI	1173
1032	WDUX-	92.7	WI	1152
1034	WIZD	99.9	WI	1145
1035	WGLF-	97.7	WI	1021
1035	WMT-	96.5	IA	949
1039	WAMO	105.9	PA	1294
1045	KIAI	93.9	IA	989
1049	WZEE	104.1	WI	1064
1049	WTKM-	104.9	WI	1107
1051	WQTC	102.3	WI	1176
1052-1112	(144-MHz to: OH & PA)			
1125	WLBC-	104.1	IN	1049
1127	CILQ	107.1	ON	1439
1127	CKDK	103.9	ON	1439
1135	WJLB	97.9	MI	1239
1138	CKLW	93.9	ON	1233
1142	CIMJ	106.1	ON	1398
1145	WKQI	95.5	MI	1239
1146	KEZO-	92.3	NE	830
1148	KWYR-	93.7	SD	957
1148	KKOK	95.7	MN	1123
1151	KXRA-	92.3	MN	1149
1153	WVIC	94.9	MI	1196
1154	KKMK	93.9	SD	1038
1156	KELO-	92.5	SD	978
1157	KQSW	96.5	WY	1014
1159	KAML-	96.9	WY	1090
1204	KQIX	93.1	CO	874
1206	KGFY-	92.7	SD	1033
1207	KJYE	92.3	CO	873
1214	KSSZ	92.7	ND	1124
1225	KSSD	90.5	UT	1018
1245	KXAZ	93.5	AZ	895
1251	KKWZ	93.7	UT	1000
1258	KERE-	94.9	UT	1009
1300	KDSS	92.7	NV	1146
1302	KZEZ	93.5	UT	1010
1304	KPAH	92.7	NV	1219
1306	KSGC	92.1	AZ	805
1309	KREC	98.1	UT	1002
1327	KEKB	99.9	CO	878
1331	KSOE-	104.3	UT	1087
1335	KWJU	106.5	UT	1059
1344	KYKN-	103.9	UT	1030
1345	KMXU	105.1	UT	1011
1349	KEZN	97.9	UT	1133
1354	KPCL	95.7	NH	747
1406	KFMD	95.7	UT	1031
1408	K228CL	93.5	NV	1130

07-12-94:

0935	KMTN	96.9	WY	1175
0943	KFLO-	94.5	SD	1002
0950	KWYR-	93.7	SD	957
0953	KQDY	94.5	ND	1211
0953	KSCR-	93.5	MN	1106
0957	KGFY-	92.7	SD	1033
0958	KQSD-	91.3	SD	1033
0959	KDSU	91.9	ND	1213
1016	KRCS	93.1	SD	1061
1028	KQAA	94.9	SD	1080
1031	KVCX	101.5	SD	944
1033	KAML-	96.9	WY	1090
1037	KLZY	92.5	WY	1187
1040	KMCH	92.5	MT	1229
1151	WJPD	92.3	MI	1319

07-14-94:

0838	WJMO-	92.3	OH	1263
------	-------	------	----	------

## Dyer, cont.

DECEMBER 1994

0843	WNIZ	96.9	IL	1078
0849	WKLH	96.5	WI	1110
0850	WKTJ	94.5	WI	1110
0854	KSSZ	92.7	ND	1111
0901	CJBX	92.7	ON	1342

07-16-94:

1813	WGKS	96.9	KY	1010
------	------	------	----	------

07-17-94:

1200	KILA	90.5	NV	1052
1200	KUNV	91.5	NV	1052

07-19-94:

0914	WAIF	92.5	MI	1323
0922	WHWL	95.7	MI	1320
0924	WRJO	94.5	WI	1255
0931	WJPD	92.3	MI	1319
1047	KDAL-	95.7	MN	1244
1055	KQDS-	94.9	MN	1245

07-20-94:

1016	WXLK	92.3	VA	1187
------	------	------	----	------

07-21-94:

1100	WXLK	92.3	VA	1187
1103	WJDJ	93.9	KY	923
1106	WLIL-	93.5	TN	937
1106	WAXM	93.5	VA	1040
1109	WXCC	96.5	WV	1033
1113	WMJD	97.7	VA	1090
1128	KMAL	92.7	MO	927
1131	WYGY	96.5	OH	1058
1132	WCOL-	92.3	OH	1139
1134	WHIC-	94.3	KY	915
1134	WOXY	97.7	OH	1044
1136	WINN	106.1	IN	987
1136	WXLN-	105.7	KY	981
1141	WFZQ	107.3	IN	1000
1147	WLBC-	104.1	IN	1049
1149	WXXF	97.9	IN	1031
1150	WTTS	92.3	IN	984
1151	WQKC	93.7	IN	964
1153	WVKS	92.5	OH	1181
1156	WACF	96.5	IL	932
1157	WTPI	107.9	IN	1004
1202	WKQI	95.5	MI	1239
1206	WOWO-	103.1	IN	1093
1209	WHZF	103.7	IN	1041
1211	WIQE	102.9	MI	1205
1214	WJXQ	106.1	MI	1182
1217	WMZX	103.9	MI	1229
1219	WOOD-	105.7	MI	1165
1219	WVGR	104.1	MI	1165
1220	WWCK	105.5	MI	1247
1223	WQXC	100.9	MI	1147
1224	WKGH	92.3	MI	1151
1226	IIKK	108.7	IL	1003
1229	WKIO	92.5	IL	936
1235	WNIZ	96.9	IL	1078
1238	WDEK	92.5	IL	1017
1239	WJTW	93.5	IL	1019
1240	WKLH	96.5	WI	1110
1240	WLHT	95.7	MI	1176
1241	WYSY	107.9	IL	1026
1243	WLUF-	97.9	IL	1053
1244	WIIIL	95.1	WI	1090
1245	WAIR	92.5	MI	1323
1257	WVVX	103.1	IL	1061
1248	WTAZ	102.3	IL	928
1249	WMRR	101.7	MI	1160



## SOUTHERN FM DX

Dyer, cont.

DECEMBER 1994

7/21

1252	WKHQ-105.9	MI	1309
1255	WZTR 95.7	WI	1110
1255	WHIL 106.1	WI	1110
1301	WHYX 99.1	WI	1097
1301	WKTJ 94.5	WI	1110
1310	WDOR- 93.9	WI	1228
1324	WBWI 92.5	WI	1118

07-26-94:

1113	WWSW- 94.5	PA	1292
1125	WCOL- 92.3	OH	1139

07-27-94:

1004	WZKL	95.7	OH	1254
1021	WCVZ	92.7	OH	1185
1033	WQLZ	92.7	IL	873
1034	WNCI	97.9	OH	1140
1041	WSTQ	97.7	IL	875
1043	WYGY	96.5	OH	1058
1051	WCOL- 92.3	OH		1139
1051	WCLR	95.7	OH	1095
1054	WRBI	103.9	IN	1013
1059	WMHG- 93.5	KY		923

Though down a lot from the high June levels, FM Es still kept things very busy in July. It looks like for duration and geographical spread, Jul 11 is "the" day of the month (with the 5th being a very close "runner up").

'94	dys	#	min
May	11	18	1450
Jun	25	48	3495
Jul	20	28	1850

ADDENDA:

06-29-94: 1454 WRHA 105.1 SC JOHNSONVILLE (area ad) 1160

The 106.5 LAS VEGAS call should be KSNE.

## NORTHERN FM-DX

GREG CONIGLIO  
5100 GLENWOOD DRIVE  
WILLIAMSVILLE, NEW YORK 14221

e-mail: coniglio@geog.buffalo.edu

coniglio@accu.buffalo.edu

V131KKDN@UBVMS.BITNET

For DXers in: MA,NH,VT,CT,MA,RI,NY,PA,NJ,OH,MI,IN,IL,WI,MN,IA,NE,SD,ND,MT,WY,ID,WA,OR,AK,Canada

DECEMBER 1994 DEADLINE: The 5th LOG CUTOFF: 3 months from postmark

A small column this time around, the first time that has happened in quite awhile! Conditions for the most part have been fairly quiet. There was an increase in activity in the midwest and east during mid-October, although judging by the few reports received, and how the opening went from here, TV was more affected by this opening than the FM was. Indeed, members have seemed to concentrate on minor tropo openings, tropo scatter, and, unfortunately, bagging new locals and semi-locals, with the lack of anything major. I have had some reports of off-season E-skip here and there, but nothing into the FM band. Nov. has been quiet so far. HAPPY HOLIDAYS!

JOSEPH PELA - 150 ROBERT PLACE - SO. PLAINFIELD, N.J. - 07080

Equipment - McIntosh MR-78 tuner/stacked Stereo Probe 9s + a single Stereo Probe 9,  
on rotors, at 40 ft., Bolin phase box.

Time: ELT

AUGUST 11

11 Tr [continued from last report]

0059	[WUKY]-91.3	KY Lexington, ID, c,	
		prev. heard as WBKY on Es.	561
0100	WOSU	89.7 OH Columbus, ID, c,	455
0110	WPAY	104.1 OH Portsmouth, ID, k,	
		WAEB phased.	474
0115	WRZQ	107.3 IN Greensburg, ads, call	598
0132	WXVU	91.7 OH Cincinnati, call,	
		Nightways with Cleopatra, r	544
0152	WJER	101.7 OH Dover, contest,	
		AM/FM ID, rock	372
0159	WCLRT	95.7 OH Piqua, o, apparent	
		legal ID given both softly and	
		quickly thus garbled. Everything else	
		heard fairly clear!, "Kool 95"	
0635	WJPA	95.3 PA Washington, o, mention	
		of WJPA-1450, ads.	307

19 Es

1750	KDJS	95.3 MN Willmar, "K-95.3",	
		Willmar ad	
1757	[KKOK]-95.7	MN Morris, call, "Easy k"	
		Ex: KMRS	1139
1800	KTIS	98.5 MN Minneapolis, legal AM/FM	
		ID, into nx	1007
1808	KQWC	95.7 IA Webster City, ads	1011
1824	[KKOT]-93.5	NE Columbus, call, wx,	
		Ex: KTTT/KWMC	1199
1835	KTGL	92.9 NE Beatrice, "Lincoln's	
		Classic Rock, The Eagle"	1174
1922	KZOC	92.9 KS Osage City, "KZ-93"	1147
1939	KSNP	95.3 KS Burlington, o, ads, call	1146
1943	KMUW	89.1 KS Wichita, wx, ID	1244

AUGUST 24 Tr

2222	WWSE	93.3 NY Jamestown, "SE-93",	
		contest w/address, ads	271
2307	WMJQ	102.5 NY Buffalo, "Q-102", r	280
SEPTEMBER 21 Tr			
2301	[WKIK]-104.7	VA Crewe, ID, k aimed	
		at the Richmond market	309
OCTOBER 8 Tr			
0646	WMTZ	96.5 PA Johnstown,	
		"The Mountain 96.5", w/American	
		Country Countdown	
0706	WVSC	97.7 PA Somerset, local nx	249
0826	WFGY	98.1 PA Altoona, "Froggy 98" +	
		call, k, WOGL phased	209
19 Tr			
2000	WXTM	99.7 NY Monticello, legal ID	
		inserted, carrying WJUX-88.7 with	
		virtually all Jukebox Radio-103.1 IDs	
		(WJUX's Ft. Lee, N.J. translator)	

30 Tr

0700	[WSSF]-104.3	MD Baltimore, legal ID +	
		"The Colt" (?-The Cult?), WAXQ	
		phased, ex: WITH/WDJQ/WBSB/WVRT	133
0730	Most Washington-Baltimores o/NYC		
	with phasing.		

On car radio -

0801	WPBX	88.3 NY Southampton, ID heard	
		over local WBGO, chewing WBGO	
		badly while driving around but	
		couldn't get them at home with	
		phasing. Must be WPBX's high	
		vertical/low horizontal powers.	
		Time to add a vertical antenna.	

73, Joe



**TIM MCVEY - 124 TIMBER LANE - HANOVER, PENNSYLVANIA 17331**

Equipment: Trusty old Pioneer TX-7500 with front end-IF mods, Stereo Probe 9 on a rotor hanging bat-like in the attic; several other tuners and homebrew electronics that'll eventually be turned into a totally outstanding setup.

## SEPTEMBER 1994 DX

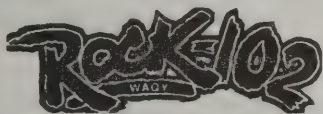
### 18 TrS

0300 WWSE 93.3 NY Jamestown, SE93, mor

0320 WKIK 104.7 VA Crewe, "The Bear", k, lcl ads

### 27 TrS

2100 WBBG 93.3 OH Youngstwn, Oldies 93 WBBG



## OCTOBER 1994 DX

### 8 Tr (175-300 mile logs)

0737 WPDH 106.1 NY Jeffersonville, aor, "the home of rock and roll, 101.5 WPDH" heard

0738 WPDH 101.5 NY Poughkeepsie, local quality

0740 WRCH 100.5 CT N.Britian, calls, oldies

0743 WAQY 102.1 MA Springfield, classic rock Q102

0752 WHCY 106.3 NJ Blairstown, "Hot k 106.3"

0755 WHCN 105.9 CT Hartford, classic r. 106HCN

### 29 GW

0842 WVOS 95.9 NY Liberty, "modern k is WVOS"

2050 WXJN 105.9 DE Lewes, k, "Kicks 106"

We just moved back from the U.K. and finally got settled into our new home. Hanover is close enough to 3 major cities that I can regularly listen to the stations that I really care about in Philly/DC/Balto...but far enough away from all that I can DX. Indeed, considering I'm using a beat up attic mount antenna and shoddy Radio Shack so-called RG-8, I am amazed at the stations that roll in here regularly up and down the crowded dial. FYI here's three MD stations changes of interest: 103.1 Grasonville is now WRNR (ex WXZL) playing true, progressive/alternative. 104.3 WSSF in Baltimore is now one of those 1970's "classic rock" stations, calling itself "The Colt" in a cheap, short-term marketing ploy connected to the city's resurgence on the football scene (legally referred to as the Baltimore CFL's!) Nice to say goodbye to those tacky WSSF Soft 104.3 billboards with Barry Manilow, Barbara Striesand, and Neil Diamond towering over the interstate. Lastly, WTMD 89.7 Towson, MD is playing new age music all the time now. Kind of neat to hear a different format from the usual kountry and lame rock everywhere. Couldn't work the 8 Oct duct after 0800 due to work, but it would have certainly filled up the logbook in a hurry. This is my first NFMDX report ever; hope Danny Buntin (and Elvis) will forgive a TN boy moving above the Mason-Dixon line. Well, enough chatter...next time there'll be light DX and less talk. 73.... (Welcome to Northern FM, Tim. It is good to hear from you again, and we hope to hear from you often!-gc)

## dBRUCE HALL - 5 STIRTON AVE. - BRANTFORD, ONTARIO CANADA N3T 1E2

Equipment: JVC JR-S201 receiver (IF mod with 3 110 khz filters), Magnum Dynalab Sleuth 205 amp, Probe 9 fed with RG6 at 50 feet AGL, Crown Rotor, Distances are in kilometres.

## OCTOBER 1994 DX

### 8 GW/Tr

0800 W297AB 107.3 NY Williamsville, "today's hot new country WNUC 107.7" // 107.7 WNUC 122

0816 WICT 95.1 PA Grove City, (Youngstown OH)  
"Could you turn that racket down, I'm trying to listen here  
-Go ahead, make your day and turn it up really loud.  
Today's hot new country is on the new Kat Country 95"

(ex K-Rock 95) 162

0900 WOUZ 90.1 OH Zanesville, "This is Ohio Univ.  
Public Radio, WOUB-FM Athens, WOUZ-FM Cambridge  
WOUL-FM Ironton, WOUH-FM Chillicothe, WOUZ-FM  
Zanesville" 477

### 15 Tr

1119 WBYR 98.9 OH Van Wert, "One great classic  
after another, 98-9 The Bear" 435

### 16 Tr

0000 WBUK 107.5 OH Ft.Shawnee, "Oldies 107.5 the  
Big Buck", Lima Land mention, legal ID w/Lima 416

0908 WCLX 93.9 MI Mio, "Now there are two places to  
turn to hear cont. favourites all day every day, 100.7 and  
93.9 - Super Station CLS" 352

0929 WLXT 96.3 MI Petoskey, "One soft hit after  
another on Traverse City's light, the new lite 96 FM WLXT"  
ex: WMBN 448

1000 WBTZ 100.9 MI Piconning, "The Blitz 100.9 WBTZ  
Midland/Bay City & WUVE 104.5 Saginaw/Flint, solid  
rock and roll for all of mid-Michigan" 304

1018 WMKC 102.9 MI St.Ignace, "KC Country and Reba  
McIntyre" over local CKLH Hamilton 437

1036 WGFM 105.1 MI Cheboygan, "N. Michigan's  
Classic Rock & Roll, 105.1 and 98.1 GFM", ex Gold FM 466

1046 WKHQ 105.9 MI Charlevoix, "The best of today's  
hits and all your favourites, hits KHQ" 466

73, dB





# NORTHERN FM DX

DECEMBER 1994

MIKE CHERRY (VE7SKA) - BOX 631 - GANGES, BRITISH COLUMBIA V0S 1E0

Home equipment: Toshiba SA-500 receiver, Channel Master rabbit ears with tune sw. FM beam not up yet  
Mobile: Toyota FM stereo receiver w/180 khz IF. Mobile loggings indicated. PDT used.

## AUGUST 21, 1994 MS

0739 KUER 90.1 UT 7 secs, calls, prev Es 795

## SEPTEMBER 25 Tropo

0643 KKZX 98.9 WA Spokane, KEZX off air 299

0658 KMBI 107.9 WA Spokane, religion(&), ID 299

0700 KPBX 91.1 WA ID, "wknd. edition" 299

## OCTOBER 1994 DX

### 5 Tropo (Long Beach, BC, w. coast of Vancouver I.)

0914 KLCO 90.5 OR \$, jazz, &, blues 330

0916 KMUN 91.9 OR c\$, coming events 200

0919 KKEE 94.3 WA oldies\$, ads 190

0924 KLLM 103.9 WA ads, k\$ 105

0927 KIJK 95.1 OR ID, k\$ & 405

0933 KYTT 98.7 OR "K-Lite", relig t(weak) 410

0934 KSHL 97.5 OR "K-Shell", k music 315

0939 {KKJZ} 106.7 OR "Smooth 106.7", jz\$ 255

0944 KINK 101.9 OR adult altern, \$ 250

0952 KRSB 103.1 OR ID, wk, NEW RECORD! 435

0955 KYTE 102.7 OR \$, o/local xltr CIWC 330

0958 KBPS 89.9 OR ID\$ w/AM 1450 250

0959 KOFE 88.9 OR ID, weak 350

1001 KMGE 94.5 OR "Magic 94.5", rm mx 360

1002 KMCQ 104.5 OR ID, wx, ads 265

1000 Vancouver BC & Bellingham FMs

1004 KAOS 89.3 WA ID, modern r (weak) 145

1005 KACS 90.5 WA under KLCO 155

1007 KTBC 91.7 WA \$calls, op music 140

1008 KUGN 97.9 OR PSA, k\$, ads 360

1010 KHPE 107.9 OR K-Happy, mg\$ 330

1012 KXOA 107.9 CA, 12 sec. ID (MS)

1017 KBCS 91.3 WA f\$, calls 140

1020 KLYK 105.5 WA rm\$, PSA 220

1021 KBOO 90.7 OR ID, t (weak) 250

1023 KWAX 91.1 OR promos, \$ 360

1024 KLCC 89.7 OR jazz // KLCO 360

1027 KODZ 99.1 OR "Oldies 99.1" \$ 360

1030 Portland-Seattle-Tacoma FMs

## October 6 Tr (Long Beach)

0835 most Portland FMs

0845 most Seattle/Tacoma FMs

0840 KTLT 104.1 OR PSA, sports, \$ 270

0847 KCED 91.3 WA under KBCS 155

0854 KVLV 99.3 NV "Reno's Rock 99" (MS)

0856 KAYO 99.3 WA news, ad (weak) 140

0859 KGHO 95.3 WA mono, relig. talk, ID 140

0900 KSER 90.7 WA over KBOO, eclectic 135

0918 K217AY 91.7 WA xltr KPLU 88.5, weak 130

0925 KCMU 90.3 WA grunge rock, ID 140

0929 KIJK 95.1 OR calls, ad 405

0931 KBCS 91.3 WA f\$ over KCED 140

0932 KACS 90.5 WA relig t, \$, no KLCO 155

0934 KSKD 107.1 OR mg, \$, "K-Love" 345

0935 KMCQ 104.5 OR Portland ads, \$ 265

0936 KLYK 105.5 WA ID\$, hot AC 220

0937 CKGR 100.1 BC ID w/CFWB-AM 80

0939 KYYT 102.3 WA wx, promo (weak) 275

0942 KMNT 102.9 WA K103, k\$ 160

0946 KODZ 99.1 OR o, ads 360

0949 KLCO 90.5 OR under KACS 330

0951 KUGS 89.3 WA calls, grunge rock 1200953

KZAZ 91.7 WA ID, c, over KTBC 120

0957 KUMZ 94.7 WA ID, mb, still K-Music 260

0958 KNHC 89.5 WA C-89, ID, rs\$ 140

0959 KVTI 90.9 WA CHR, I-91-FM 145

1000 CBU1 92.1 BC CBC news, \$ 100

1004 KCRF 96.7 OR o, ID, FINALLY! 315

1077 KLCC 89.7 OR jz, w/ms bursts 360

1009 KSHL 97.5 OR calls, ad, k (weak) 315

1010 KBVM 88.3 OR relig t, calls, \$ 255

1015 Wash. Coast: 95.3, 103.9, 104.7, 94.3, and also

Astoria 91.9, 92.9

1035 Vanc BC: 93.7, 96.9, 101.1, 103.5, and 104.9

but no Bellingham on 92.9 or 104.3!

As always, my autumn "tropo vacation" provided some treats! The first 2 days out on the west coast were hot, clear and sunny - not tropo producing weather. A little scatter from the Wash. coast, notably KLLM 103.9, KGHO 95.3, KDUX 104.7, KKEE 94.3 showed up occasionally. 10/5 and 10/6 hit pay dirt as fog obscured the sun all along the BC, WA, and OR coast. Surprisingly, tropo from the Oregon coast was only so-so, not like last year when signals were incredibly strong, even down at sea level! Tropo from inland Oregon turned out to be the big treat with KIJK 95.1 and KRSB 103.1 the prize catches. As always, there were tons of meteor bursts and "pings" coinciding with the Sextantids shower (30 zHr per hour). I am looking forward to a visit from WTFDA member Todd Brandenburg, KA0KAN who will be here Oct. 19 & 20. Hopefully some VHF DX will occur. Hope everyone has had lots of tropo this fall and that lotsa winter Es shows up! 73\$ de VE7SKA.

FRED NORDQUIST - 7945 BOXFORD ROAD - CLAY, NEW YORK 13041-8606

Equipment: same

## SEPTEMBER 1994

### 16 TR

2119 WQWB 105.5 NY Little Falls r ID Wow-105 w/

WGES phased nulled 64

2142 WSLK 106.3 NY Saranac Lake k

Kickin Country K106 130

Totals: 1691. Tropo to IN/MI noted on 10/15 but spent session TV-UHF DXing. DX has been meager as of late (was

20 K/MO/AR/MO/KY visiting relatives and attending 30 college class reunion 10/20-10/29) - 73-Fred





## WELCOME NEW REPORTER!!

LESLIE G. WOOD - 1463 TADMOR ST. - NORTH MERRICK, NEW YORK 11566

Equipment: GE Superadio III with whip antennae

**OCTOBER 1994 DX****8 Tropo**

2200 WZBH 93.5 DE Georgetown  
 2305 WWDB 96.5 PA Philadelphia  
 2315 WZZO 95.1 PA Bethlehem

Nice tropo on morning of October 30th, with a few stations coming in like locals. Sent QSL reports out to WYSP, WZBH, and WRBS. Latest varies in are: WLNE TV-6, KNSW TV-3, FM; WPKN 89.5, WQRC 99.9 (Thanks for reporting, Leslie. We hope to see more reports from you!-gc)

GREG CONIGLIO - 5100 GLENWOOD DRIVE - WILLIAMSVILLE, NEW YORK 14221

Equipment: Pioneer TX-9100 tuner modified with 150khz and 180 khz filters, CM Stereo Probe 9 FM antenna = 20' AGL, CAC11 & RG6 coax. Phasing: Jerrold 10 element TV antenna at = 25' AGL, rotatable, into "two capacitors in a phase box", and switchable rabbit ears both into a 0-10-20 db Radio Shack amp.

**OCTOBER 1994 DX****12 Tr/GW**

2257 WLLG 99.3 NY Lowville, legal ID, finally! 170  
 2320 CJKX 95.9 ON Ajax, k\$, testing, now on the air with k\$, and "KX-96" slogan 70

**13 Tr**

0729 WGMR 101.1 PA Tyrone, o/local CKEY 162  
 0750 WHPA 104.9 PA Hollidaysburg, strong 177  
 0800 WFGY 98.1 PA Altoona, k\$, o/lcl CHFI 172  
 0806 WLIF 101.9 MD Baltimore, rare, strong 277

**15 Tr**

2346 WNUY 100.1 IN Bluffton, Y-100, legal hrd 369  
 2347 WBYR 98.9 OH Van Wert, op\$ o/WKLX 337

**16 Tr**

0006 WQHK 105.1 IN Decatur, many Ft. Wayne ments., K105 slogan, CST checks, k\$ in mess 354  
 0042 WLDE 101.7 IN Ft. Wayne, Oldies 101.7 357  
 0625 WCRZ 107.9 MI Flint, Cars 108 o/CING 253  
 0630 WSAQ 107.1 MI Pt. Huron, k\$ o/CILQ 190  
 0640 WLEW 102.1 MI Bad Axe, very strong over local CFNY with ads, rm\$ 224  
 0646 WMYX 99.1 WI Milwaukee, ads 467  
 0655 WBMI 105.5 MI W. Branch, Cool 105, o\$ 292

**OCTOBER 9 Tr**

0050 WQRC 99.9 MA Barnstable, nice signal

**19 Tr**

0910 WYSP 94.1 PA Philadelphia

**30 Tr**

0830 WRBS 95.1 MD Baltimore, with good, local sig.  
 1000 WSTW 93.7 DE Wilmington, nice signal, seemingly all alone, with many IDs.

**Oct. 16 Tr cont.**

0920 WCLX 93.9 MI Mio, "Superstation CLS" with soft a/c // WCLS 100.7 Oscoda 295  
 0930 WKHQ 105.9 MI Charlevoix, Hits 106 364  
 1000 WCLX 93.9 MI Mio, now picking up and relaying CHIN 100.7 Toronto, not WCLS! 295  
 2219 WZOM 105.9 OH Defiance, o\$, ment. moving to 105.7 that Thursday! 314  
 2230 WLEN 103.9 MI Adrian, o/CKDK 283  
 2354 WELL 104.9 MI Marshall, country 323

**17 Tr**

0005 WKKO 99.9 OH Toledo, K100, k\$, in VERY well over local CKFM Toronto 264  
 0015 WQKL 107.1 MI Ann Arbor, o\$, Kool 107, ads, over local CILQ 262  
 0023 WLDE 101.7 IN Ft. Wayne, o\$, WBTF off 357  
 0032 WKHM 105.3 MI Brooklyn, phased CFCA with b\$, and calls 290  
 0124 WDFM 98.1 OH Defiance, a/c parallel to W19BN!, in over CHFI local 314  
 0135 WRQN 93.5 OH Bowling Green, o\$ 278

**30 Tr**

0930 CIOB 101.1 ON Barrie, testing with hot a/c\$ music and "B101", ph/CKEY 110

Some nice tropo openings during mid-October came as a pleasant surprise! Nice to add some much wanted stations from Michigan, Ohio, and Indiana. On FM, though, for the majority of the time, signals were on the weak side, in contrast to the huge signals seen on TV. Totals now 1973, a testimonial to what I call my best season ever, by far, blowing away my previous best skip year of 1990. Some of the recent loggings though, have been bittersweet, as they have been new locals, semi-locals, or local translators of a station that comes in fine anyway! (WNUC). And I hear that there are many more semi-locals coming, as they CRTC moves AM stations onto the FM band. I have heard that we may be getting a few more stations in the Niagara Peninsula of Ontario region-I hope I don't lose my very open freq. of 104.9. On the weekend of October 22-23, I, along with about 10 other DXers, make the trek to Brantford, Ontario, for a mini-DX get together put on by Bruce Hall. He really put on a good get together, and I enjoyed the whole weekend! Some minor enhancement greeted us, to Pittsburgh and Ohio, but nothing major. Enjoyed meeting everyone and seeing people once again. Well, this being the final 1994 VUD, I would like to thank everyone who has reported to the columns this year, and hope to continue to hear from you in 1995! Have a great holiday season!



# EASTERN TV-DX

Stephen West  
26 Dougherty Blvd. G-8  
Glen Mills, PA 19342-1140

(610) 358-2648

December 1994

Deadline: 5th

High pressure and warm weather over the Eastern half of the United States has brought improved tropo conditions to many DXers. Bob Seybold even logged some skip on October 23rd. October 15 through the 18th were the best tropo days. Thanks to all of our reporters, keep the reports and DX rolling in!

Robert Seybold, 76 E. 6th Street, Dunkirk, New York

Comments: Tropo have not developed much since the end of August. September is usually an excellent month for tropo. September 15th did bring in tropo from; Cadillac-33 (MI), Gaylord-45, WMCU-14, W67CS Sault Ste. Marie and Wisconsin on 15, 18, 20, 21, 27, 32, 36 and ch. 38.

DX made a rebound on October 15th with evening tropo from; WSEC-14, KMEG-14 KYOU-15, WANE-15, Grand Rapids-15, WICD-15, WNDU-16, WUSI-16, KDMS-17, Rockford-17, 23 & 29, WLFI-18, KLJB-18, Defiance, OH on 19, Chicago 20, 26, 32, 44, 50, 60 and 66, Joliet-35, Indianapolis 20 & 40, KDOB-40, KTIN-21, WPTA-21, KSIN-27, Red Oak-36, KJMH-26, WTCT-27, W36AR-IN, WFSJ, WEIU-51, W53AV-IN, W66BD-Ft. Wayne, Box 45 Ft. Wayne, 33, 39 & 55 Ft. Wayne, KBSI-23, KSMO-62, KPTM-42, WYZZ-43, WILL-12, KDUB-40, WQAD-8, Lima 27, 35 & 44, WHCC-23, Kokomo-29, South Bend 22, 34 & 46, WSJV-28, Fox 28 ? (not Columbus), Milwaukee 18, 30 & 36, Battle Creek 41, Sand. 41 + 52, Toledo LPTVs, Saginaw 49, WCFN-49, Lansing 23, 53 & 47, Kalamazoo 52 & 64, Grand Rapids 17 & 35, Detroit LPTV-26, Rockford LPTVs 33 & 45, Indiana 56 & 62, Angola 63, Bloomington 63, W65BV-IL. The peak of this opening was the evening of the 15th into early morning of the 16th. Evening of the 16th brought Chicago and Michigan. The evening of the 17th central Michigan and Ohio were strong. October 18th (AM) brought Burlington, VT 33 and some Canadian UHF's.

October 23 at 1945 Es returned with WBRZ-2 Baton Rouge, LA.

Richard Contone, 162-07 87th Street, Jamaica, New York 11414

Comments: I have been receiving semi-locals from Connecticut and Long Island regularly on UHF TV. I had home shopping on Ch. 15 or 16? (maybe you were getting in image from Ch. 68 Newark, NJ or Ch. 14 in D.C.? sw)  
I will be getting a mast mounted amplifier soon, along with some new RG-58.

TOM BRYANT - 849 TODD FREIS DRIVE - NASHVILLE, TN 37221 - 615-646-2000 - (COT)

EQUIPMENT: VHF: Winegard CS-4054 @ 20'; UHF: Antennacraft P-5 parabolic w/Antennacraft preamp @ 25'; RG-6 coax on each. Channel Master HD-9515 rotor. Emerson VCR (model 754); Portland 13" color receiver. New loggings bold type and underlined. Tr relogs noted only when rare.

9/18/94 Tr 0159 W57BV 57 AL 112 (TBN/Florence)  
Tr 0229 W53AF 53 MS 141 (religious/Booneville)

10/16/94 Tr 0200 WTXL 27 FL 407

10/31/94 Tr 0018 KTAL 6 TX 463



NOTES: Nothing special about the LPTVs other than the fact that I'm surprised I've never seen them before. The WTXL was the second opening to Tallahassee this year. Unlike the first, this was to a wide area of AL and GA, with repeat loggings from Columbus, Atlanta, and Montgomery. WTXL was in for over 3 hours varying from near s/f to almost unid-able...most of the time quite watchable. The big surprise was a call from Doug Smith late nite 10/30 (prompted by a tip from Ed Phelps). I didn't get the stuff from deep into TX that they were, but I did manage to nail KTAL audio via the Stereo Probe 9 and Yamaha TX-930. That's one I only dreamed of logging...from the DX 'Twilight Zone'...too close for Es and (almost) too far for tropo! 73's and goodDXing.....Tom



**Doug Smith, 1385 Old Clarksville Pike, Pleasant View, TN 37146-8098**

**Equipment:** Sears 19" color stereo TV; Archer VU-160 for VHF; RS corner-reflector for UHF, with CM-7475 preamp.

### October 1994 DX

16 Tr	0930	WJSP-28	GA	(279)	
		(Note #1)			
18 Tr	0851	WBMG-42	AL	(201)	snow-free
		WABM-68	AL	(202)	
		WTTO-21	AL	(201)	s/f
	0900	WHIQ-41	AL	(281)	APT ID
		WTJP-60	AL	(181)	
	0911	WVTM-13	AL	(200)	
		WCFT-33	AL	(223)	
		WDBB-17t	AL		CCI to local WZTV
	0930	WDIQ-2	AL	(336)	under local WKRN;// WHIQ-25
		WALA-10	AL	(395)	Gulf Shores ad
	1006	WSBN-47	VA	(249)	(where'd they come from?!)
	1032	WSFA-12	AL	(309)	legal aural ID
	1100	WBIQ-10	AL	(201)	APT ID
31 Tr	0335	KTVE-10	AR	(371)	ID bars
		(Note #2)			



**Note #1:** Apparently the tail end of a very good opening. Tom Bryant had Tallahassee about 5 hours earlier; I was too tired from a drive across the state to DX...

**Note #2:** This opening was much better than the sole logging would indicate. Had Houston FM, and four TV unIDs consistent with Houston, plus other unIDs consistent with KARD-14 and KNOE-8. Does KARD still run HSSpreet overnight? How about ID color bars on KXLN-45?

**William R. Hepburn 35 Lockwood Rd. Brampton ON L6Y 4T7 CANADA**

**Rcvr: Panasonic PC-29XF40R TV, JVC HR-D630U VCR & Icom IC-R100 Rcvr**

**Ant: attic VHF dipoles & 2nd floor UHF 4-bay**

### OCTOBER 1994 (EDT)

15 TR	0409	SBn 16.28.46 IN 356	16 TR	0722	WGVK-52 MI 312	16 TR	0806	WICD-15 IL 487
		2214 FWa 15.21.33 IN 328			Kalamazoo			Champaign
16 TR	0515	SBn still in..			(// WGVU-35)	17 TR	0145	SBn 16.28 still in..
	0520	W66BV-66 MI 189		0724	WLEI-18 IN 417		0211	WANE-15 IN 328
		Detroit (TBN)			Lafayette		0212	WFLD-32 IL T
		(0 offset)			(w/ID slide tp)		0236	WPTA-21 IN T
	0719	Chi 26.32.38 IL T		0734	WTLJ-54 MI 321		0238	Chi-44 IL T
	0720	WMVT-36 WI 410		0735	WDJT-58 WI T		0256	WVCY-30 WI T
		Milwaukee		0737	WGVU-35 MI 312			(w/HSC Spree)
	0721	WFWA-39 IN 328		0751	WNIT-34 IN T		0317	WTLJ-54 still in..
					(w/tp)		2030	WTMW-14 (DC) 356

**NOTES:** Some great tropo DX in mid-October as a broad slow-moving high-pressure system stalled over this part of the continent. First DX to the Champaign area (although this is *exactly* in line with my personal record Tr to St Louis on FM and Springfield MO on TV (i.e. - 242° azimuth)). If the weather continues this mild...there is a strong possibility of more good fall tropo.



SATELLITE MUSIC NETWORK



# STATISTICS

Featuring FM/TV Scoreboards, All Time Distance Records,  
States Stats and Personal Best Statistics of FM/TV DXers.  
(Column issued bi-monthly. 1985 Deadlines:  
Jan 5th, Mar 5th, May 5th, Jul 5th, Sep 5th & Nov 5th)

Fred Nordquist

7945 Boxford Rd

Clay, NY 13041

E-Mail:

fnordqui@erc.cal.syr.edu

UPDATED 11/14/94

## FM SCOREBOARD

DEADLINE: THE 5TH

DXER NAME	DXER LOCATION	TOTAL	88-92	ES	MS	AU	USA	CN	MX	FO	TPU	YB	AS	OF
DYER	PAT	TX SAN ANTONIO#	2691	425	2198	73	0	44+	4	21	5	75	70	10/31/94
STROBEL	RALPH	IN MUNCIE	2305	617	770	178	7	43+	7	5	2	58	72	09/03/94
BUNTIN	DANNY	OK STILLWATER	2032	344	1210	4	0	48+	5	9	2	65	74	07/01/94
CONIGLIO	GREG	NY WILLIAMSVILLE	1973	334	1032	24	38	41+	8	2	4	56	85	10/02/94
FELA	JOSEPH	NJ S. PLAINFIELD	1825	398	1006	2	10	36+	6	0	3	47	68	09/16/94
ELVING	BRUCE	MN DULUTH	1788	318	1375	9	8	47+	4	1	0	53	48	08/23/94
EBELING	JOHN	MN BLOOMINGTON	1782	306	1016	51	83	47+	6	5	0	59	52	01/01/95
NORDQUIST	FRED	NY CLAY	1692	356	836	48	59	41+	5	0	3	50	69	11/12/94
HAWK	MIKE	NE OMAHA	1381	267	722	30	0	47+	5	4	0	57	91	08/16/94
CHERNOS	SAUL	ON BURNT RIVER	1319	272	759	42	81	38+	8	0	1	48	77	08/12/94
EBELING	JOHN	MN PROSIT	1291	246	840	4	6	48+	9	2	0	60	75	01/01/95
SITTEL	MATT	FL TALLAHASSEE	1151	162	554	2	0	38+	2	6	4	51	92	10/04/94
HOLBROOK	HANK	MD DUNKIRK *	884	233	234	19	0	35+	7	0	3	46	59	03/28/94
WISEBLOOD	STEVEN	TX BROWNSVILLE	852	183	381	5	0	32	0	9	7	48	92	07/13/94
NIENAJADLY	BILL	NJ CLIFTON	806	116	376	8	0	34+	3	0	2	40	75	07/01/94
HALL	D. BRUCE	ON BRANTFORD	800	132	153	106	2	40+	6	1	3	51	90	07/20/94
STIGEL	GARY	OH TOLEDO	770	164	177	0	0	32+	5	2	1	41	76	11/12/94
STEINBERGER	RICHARD	MA HUDSON	736	155	329	12	6	35+	4	0	0	40	58	05/01/94
MORGAN	GIL	MO STOCKTON	527	102	64	3	0	28	1	3	0	32	93	06/20/94
CHERNOS	SAUL	ON TORONTO	399	103	82	0	0	21+	1	0	0	23	77	08/12/94
JEZIORSKI	MIKE	FL CRESCENT BEACH	394	66	141	0	0	29+	3	0	2	35	93	07/01/94
GEORGE	PETER	MA STOUGHTON	384	87	140	20	2	36+	5	0	0	41	67	07/01/94
MORGAN	GIL	MO LEBANON	365	67	79	2	0	29	3	3	0	35	94	10/04/94
SMITH	DOUG	TN PLEASANT VIEW	352	76	113	1	0	30	3	6	0	39	94	08/13/94
TUDENHAM	JOHN	MO JOPLIN	263	37	22	0	0	20	0	1	0	21	91	10/04/94
BUENEMAN	ERIC	MO HAZLEWOOD	174	28	67	0	0	22	0	2	0	24	92	10/16/94
ONYSCHUK	KEN	IL STEGER	168	36	0	0	0	7	0	0	0	7	68	08/20/94
REMINGTON	SHEL	HI KEAAU	135	19	0	1	0	2	0	1	0	3	89	05/02/94

\* VERIFIED.

# UPDATE SUBMITTED 10/31/94

COLUMN DEFINITIONS: are as follows: Total = Total number of FM stations logged from DXer's location (All loggings should be received within 25 mile radius of this location to count.) Freq. changes count as a station, call letter changes DO NOT count. Also count a station only once regardless if logged by different propagation modes. 88-92 = All stations logged from 88.0 to 91.99 Mhz. Es=Total number of stations logged by E-skip. MS=Total by meteor scatter. Au=Total via Aurora. USA=Total number of states and the "+" = Washington, DC. CN=Number of Canadian provinces logged. MX=Number of Mexican states logged. PO=Number of foreign countries, but not Canada/Mexico. TPU (Total number of political units)=Sum of USA CN MX and FO. YB = The year you began DXing from this location. Other groundrules for computing log totals are included in a separate page. Only 1994 entries are included. NOTE: Pay Dyer's new 386 computer should help him get caught up on his totals tally!-73,Fred

## PERSONAL BESTS - FM STATISTICS - 12/94

CHANNEL	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	TOTAL
MHZ	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	TOTAL
.1	31	29	16	13	25	20	45	40	19	19	30	31	10	16	14	48	36	22	20	50	534
.3	32	29	13	10	51	38	45	54	16	2	37	29	6	14	52	29	17	9	54	22	559
.5	40	27	16	21	49	72	46	35	41	17	42	8	7	29	15	13	3	35	20	4	540
.7	29	27	10	8	60	38	20	39	41	64	32	13	24	9	1	27	13	31	19	16	521
.9	33	22	8	9	2	30	42	31	39	38	26	35	10	3	10	49	60	33	17	36	533
TOTAL	165	134	63	61	187	198	198	199	156	140	167	116	57	71	92	166	129	130	130	128	2687

CHANNEL	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	TOTAL
MHZ	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	TOTAL
.1	24	14	24	16	5	9	26	12	16	21	13	20	30	14	15	9	20	10	15	19	332
.3	9	15	22	10	17	17	26	22	12	13	13	8	28	9	23	19	7	7	18	11	306
.5	17	18	21	7	18	36	9	26	16	21	20	20	6	22	11	22	14	35	17	17	373
.7	18	12	25	21	35	25	19	24	30	28	12	15	20	15	13	19	5	14	19	16	385
.9	28	10	27	18	18	19	18	11	11	13	10	13	8	26	7	14	7	22	8	8	296
TOTAL	96	69	119	72	93	106	98	95	85	96	68	76	92	86	69	83	53	88	77	71	1692

## FM STATISTICS

11/14/94

## STATES STATS

PU	#	DXER	#	DXER	PU	#	DXER	#	DXER	PU	#	DXER	#	DXER	PU	#	DXER	#	DXER
USA					USA(CONT)					CANADA					MEXICO				
AL	106	KPU-	69	MS12	MT	29	JJE2	25	JPI-						AGU(AG)	2	MS12	1	JPI-
AK	11	JJE3	0	None	NE	76	MHA-	52	JJE2	AB	30	JEB2	29	JJE2	BCN(BN)	14	PDY-	10	FMC-
AZ	50	PDY-	36	JJE2	NV	26	PDY-	24	DBU-	BC	20	JJE2	11	JEB2	BCS(BS)	1	PDY-	0	None
AR	86	DOD-	63	DBU-	NH	33	RST2	17	AMI-	MB	15	FMC-	13	FMC2	CAM(CE)	1	JPI-	1	SW11
CA	380	JJE2	133	PDY-	NJ	83	JFE-	73	RSM-	NB	11	FME1	6	RST-	CHI(CI)	9	FME1	7	MHA-
CO	122	DAL-	70	JJE2	NM	51	JJE2	49	RST-	NF	13	FNO-	12	DNI-	CHP(CH)	3	PDY-	0	None
CT	49	MBU-	42	AMI-	NY	236	FNO-	198	DNI-	NS	15	FME1	9	KPU-	COA(CL)	8	FME1	6	PDY-
DE	16	JFE-	14	RSA-	NC	124	MS11	86	PDY-	ON	133	DNI-	131	GCO-	DF (DF)	21	TMC-	21	JPI-
FL	175	MS12	162	PDY-	ND	34	FMC-	34	FMC2	PEI	2	JFE-	2	RST-	DUR( )	1	PDY-	0	None
GA	112	MS12	103	PDY-	OH	238	RST-	177	FME-	PQ	31	DNI-	29	GCO-	GRO(GR)	5	PDY-	1	JPI-
HI	29	SRE1	0	None	OK	139	DBU-	74	GCO-	SK	12	FME1	9	JJE2	GTO(GN)	9	JPI-	2	TMC-
ID	28	DBU-	28	PDY-	OR	31	JPI-	29	FMC2	NWT	1	WHE2	1	JEB2	HGO(HD)	1	JPI-	0	None
IL	225	FME1	219	RST-	PA	170	DNI-	142	JFE-	-----					JAL(JA)	12	TMC-	10	PDY-
IN	218	RST-	132	DBR-	RI	14	WNO-	13	RST2	FOREIGN					MEX(MC)	3	JPI-	3	PDY-
IA	120	RBR-	112	FME1	SC	61	MS11	60	PDY-	CUBA	6	RST-	5	FME1	MIC(MH)	3	JPI-	1	PDY-
KS	106	DBU-	90	TBR-	SD	40	JJE2	39	KPU-	BELIZ	3	PDY-			MOR(MR)	5	PDY-	3	JPI-
KY	120	RST-	74	PDY-	TN	110	KPU-	93	JAY-	BERMU	3	DNI-	3	GCO-	NL (NL)	20	SW11	17	PDY-
LA	76	JFE-	73	GCO-	TX	320	PDY-	226	RST-	EL SA	8	PDY-	4	SW11	OAX(OX)	1	JPI-	1	PDY-
ME	45	RST2	30	KPU-	UT	30	PDY-	23	FME1	GUATE	15	PDY-	5	SW11	NAY(NA)	1	PDY-	0	None
MD	59	JFE-	48	GMA-	VT	16	RST2	14	KPU-	HONDU	5	SW11	2	PDY-	PUE(PU)	5	PDY-	4	TMC-
MA	102	RST2	77	MBU-	VA	67	MS11	66	JFE-	JAMAI	14	KPU-	11	MS12	SIN(SN)	2	JJE2	1	DBU-
MI	172	RST-	139	FME-	WA	46	FMC2	35	DAL-	PUERT	4	KSI-	1	DNI-	SLP(SL)	2	TMC-	0	None
MN	194	JEB2	192	JEB-	WV	68	GMA1	40	RST-	D.REP	1	MS12	1	KSI-	SON(SO)	5	SW11	5	PDY-
MS	78	KPU-	64	TMC-	WI	143	BEL2	130	JEB-	BAHAM	1	FNO-	1	WNO-	TAB(TB)	2	TMC-	2	PDY-
MO	143	FME1	142	GMO-	WY	30	RST-	26	PDY-	COSTA RICA			6	SW11	TAM(TM)	25	SW11	13	MHA-
					DC	13	GMA-	13	DNI-						VCZ(VZ)	11	SW11	9	JPI-
															YUC(YU)	4	SW11	3	MS12

=====

ABOVE STATS REPRESENT MOST NO. OF STATIONS FOR EACH POLITICAL UNIT (PU) LOGGED FROM A SINGLE SPECIFIED DXER'S LOCATION.

FIRST AND SECOND PLACE DXERS ARE LISTED ONLY. OTHERS THAT ARE TIED FOR SECOND ARE NOT LISTED....FJM.

DXER INITIAL/NAME/LOCATION/COORDINATES	LAT.N.	LONG.W.	DXER INITIAL/NAME/LOCATION/COORDINATES	LAT.N.	LONG.W.
INIT DXER NAME	DXER LOCATION	DEG MIN DEG MIN	INIT DXER NAME	DXER LOCATION	DEG MIN DEG MIN
BEL2 BRUCE ELVING	MN DULUTH	46 47 92 6	JPI- JIM PIZZI	NM LOVINGTON	32 57 103 21
DAL- DOUG ALLEN	CO WOODLAND PARK	39 0 105 3	KPU- KEITH PUGH	AL NEW HOPE	34 32 86 24
DBU- DANNY BUNTIN	OK STILLWATER	36 7 97 4	KSI- KEN SIMON	FL LAKE WORTH	26 37 80 3
DNI- DAVID NIEMAN	NY AKRON	42 58 78 32	MBU- MIKE BUGAJ	CT ENFIELD	41 58 72 36
DOD- DAVID ODELL	AR LITTLE ROCK	43 16 96 15	MHA- MIKE HAWK	NE OMAHA	41 13 96 3
FMC- FRED MCCORMACK	ND DES LACS	48 17 101 25	MS11 MATT SITTEL	NC RALEIGH	35 47 78 39
FMC2 FRED MCCORMACK	ND FARGO	46 52 96 48	MS12 MATT SITTEL	FL TALLAHASSEE	30 29 84 18
FME1 FRANK MERRILL	IL MACOMB	40 27 90 40	PDY- PAT DYER	TX SAN ANTONIO	29 28 98 36
FNO- FRED NORDQUIST	NY CLAY	43 8 76 8	RBR- RUSS BROWN	MI ST JOSEPH	42 6 86 29
GMA- GUS MANCUSO	MO CHERVERLY	38 55 76 55	RST- RALPH STROBEL	IN MUNCIE	40 11 85 23
GMA1 GUS MANCUSO	WV BIRCH RIVER	38 30 80 47	RST1 R. STEINBERGER	MA HUDSON	42 24 71 35
JEB2 JOHN EBELING	MN PROSIT	47 0 92 37	SRE1 SHELDON REMINGTON	HI KEAAU(FERN FOREST)	19 27 155 10
JFE- JOSEPH FELA	NJ S PLAINFIELD	40 35 74 25	SW11 STEVEN WISEBLOOD	TX BROWNSVILLE	25 54 97 30
JJE2 JOHN JEFFERSON	CA PLEASANTON	37 40 121 53	TMC- TIM MCVEY	TN BOLIVAR	35 16 88 59
JJE3 JOHN JEFFERSON	AK ANCHORAGE	61 13 149 53	WHE2 WILLIAM HEPBURN	NT CORAL HARBOR	64 8 83 10
			WNO- BILL MOLLMAN	CT BOZRAH	41 20 72 36

Personal Bests - Bill Nienajadly - Clifton NJ (7/1/94)

Shortest Es: 563 mi. - 91.7 OH Cincinnati

Farthest Es: 1425 mi. - 92.5 TX San Antonio

Most productive Frequency: 92.1 33 (26 Es)

Most logged in 1 Es opening: 52 (6/12/94)

Personal Bests - Hank Holbrook - Dunkirk MD (3/28/94)

Farthest Es: 1540 mi. - 98.5-WPRM PR San Juan 25kw

Farthest TR: 800 mi. - 89.1-ZBM Bermuda Hamilton 1kw

Farthest MS: 975 mi. - 88.5-KJLC MO Kansas City 10kw

Low Power W265AC-100.9 MD Salisbury 1w 65mi

TR Low Power WKR8-90.9 NY Brooklyn 8.6w 200mi.

Es Low Power KUMN-89.1 MN Duluth 190w 965mi.

Personal Bests - Steven Wiseblood - Brownsville TX (3/8/94)

Farthest TR: 90.5-RJR Jamaica 1475mi, 93.5-Santa Clara Cuba 1132mi.

FL 1000-1100mi 23 stations. GA/FL: 900-1000mi &gt;30 stations.

Personal Bests - Matt Sittel - Tallahassee FL (10/21/94)

Farthest Es: 1428 mi. - 93.1-KRCS- SD Sturgis

Farthest TR: 913 mi. - 100.5-KBDR TX Miranda City

Farthest MS: 655 mi. - 89.3-KSJB TX Humble

Personal Bests - D. Bruce Hall - Brantford ON (07/14/94)

Farthest 2ES: 2672 km/1661 mi. - 91.7-XXXL- NL Monterrey

Farthest TR: 909 km/565 mi. - 94.3-CJSD ON Thunder Bay

Farthest MS: 2363 km/2028 mi. - 95.7-KQYN CA Twentynine Palms (during Apr Lyrids MS)



## QSL CORNER



### LOGOS RUN

Thomas J. Yingling, Jr.  
221 Pinewood Road  
Baltimore, MD  
21222-2345  
410-282-5649

VA WTMW 14 Arlington, reply as qsl

letter from William Kraemer, CE in 3 months. transmitter located close to WRC in DC. (Holbrook)

DE WVUD 91.3 Newark, % University of Delaware, Perkins Student Center, zip 19716. Letter from Rich McGuire, CE who says "We were WXDR until 11/92. The call belonged to the University of Dayton (Ohio ?) (Holbrook)

MD WJTM 88.1 Braddock Heights, send back my prepared qsl card (pqc) in 5 month from Paul Black. (Holbrook)

NB CBAF-3 91.5 Moncton, P. O. Box 950, zip E1C 8N6. QSL card and letter from Marcel Cantin, Transmitter Supervisor. reply in 2 months. Holbrook

VA WHRO 90.3 Norfolk & WHRV 89.5, 5200 Hampton Blvd., zip 23508-9476.

Letter from Herman Wood, CE mentions antenna up with WHRO-TV 15 1000 foot tower at the 630 foot level. Also station is often heard on my car radio in my area ! Holbrook

MD WETH 89.1 Hagerstown

DC WETA 90.9 Washington, P. O. Box 2626, Wash, DC (no zip!) send letter from Joseph M Davis, PE/CE. WETA has 75kw erp at amsl 830' & WETH has 900watts at amsl 2,325'. Holbrook

ON CBOF 90.7 Ottawa, % CBC, Box 3220, Station "C", zip K1Y 1E4. I sent an tape report and got qsl reply from J.M. Garriere, Audience Relations Officer who mentions 84kw. Holbrook

MA WXTK 94.9 West Yarmouth, 278 S. Sea Ave., zip 02673. Letter qsl from Vern Coleman, CE (was CE for WCCB in 1943, then tv, retired, & now part time) who mentions station was completely rebuild in 1991 from ground up. Holbrook

MN KWGM 105.5 Montevideo, P. O. Box 738, zip 56265. Letter from Dwight L. Mulder. He verified only after I met him in person at conference & reminded him that he had not answered my letter of two years earlier ! Elving

MN KKDO 99.3 Thief River Falls, P. O. Box 218, zip 56701. Letter from Dave Halvorton, Program Coordinator verified after an personal contact with the station owner at the MN conference. He mentioned the format has since changed to country, and my report was the furthest that has been reported to us. Delving

AZ KENO 92.1 Green Valley, 1920 W. Copper, Tucson, AZ 85745. Letter from Charlie Morris, Program Director, sends bumper stickers . Delving

FL WOO 107.3 Jacksonville, 8386 Baymeadows Rd., Ste. 107, zip 32526. Letter from Kyle D. Dickson, CE who mentions that two other firm's operate out of their complex which are WAY 93.3, WEST 97.9 & as well two am radio stations ! Also send bumper sticker showing their Rooster logo & coverage map. Delving

MN KRCC 102.3 Detroit Lake, P. O. Box 566, zip 56502. Letter from Bob Spilman, GM send an media kit, but no bumper sticker, "as most people won't put them on their cars" & promises to send a T-shirt when they come in. Wants me to tune in before and after they install some new parts in their transmitter and report on reception. Holbrook

MN WELY 92.1 Ely, A long handwritten letter by Jeanne A. Larson, President, after several follow ups, including a phone call in which she said she would not verify my letter. Then out of the blue the letter came, mentioning night time 10pm sign off. Elving

MN KKRC 93.9 Granite Falls, 675

Prentice St, zip 56241. Letter from Deanne Hodge, GM says their operating hours are from 6:45am to 12:30 am. It's a station I received with an Andy Bolin Phase Box, phasing out nearby WTBX 93.9 Hibbing, MN. Elving

SC WAGP 88.7 Beaufort, Box 119, zip 29901. Handwritten letter from Charles R. Smith, GM mentions previous being heard on Martha's Vineyard, MA (Ernie Cooper lives nearby in MA ?) also send bumper stickers & program guide. Elving

MD ELHH9 156.65 Columbus Olinda, an container ship on Chesapeake Bay near Town Point, MD. QSL address is: Hamburg-Sudamerikanische, Dampfschiffahrts-Gesellschaft, Eggert & Amsinck, OST-West-STR 59-61 - Postfach 11 15 33, 2000 Hamburg 11, Germany. send card signed by Capt. H. J. Schmidt, Title Master. (Holbrook)

MD P3RT4 156.80 TSL Gallant, container ship at Sandy Point Light, Chesapeake Bay, MD. Qsl address is: Columbia Ship Management Ltd. P. O. Box 1624, Limassol, Cyprus. send card signed by name unreadable, titled Master. (Holbrook)

MD KAFO 156.65 Chemical Pioneer, tanker ship leaving Sparrows Point Shipyard, in Dundalk, MD. Qsl address: Marine Transport Line Co., 150 Meadowland Pky, P. O. Box 1550, Secaucus, NJ 07094. card & photo of radio room & ham qsl card. No name of signer. (Holbrook)

MD LAYD2 156.65 Polycarp, bulk carrier ship approaching CR-buoy. Qsl address is: Rasmussen, Einar, Kirkegaten 1, Postboks 37, N-4601, Kristiansand S. Norway. (Holbrook)

MD CG-41470 156.60 utility boat off Ocean City, MD. Qsl address is: US Coast Guard Station, P. O. Box 1000, Ocean City, MD 21842-1000. Letter & photo of boat. (Holbrook)

MD WTZ-3364 156.425 Sheraton, boat position at Town Creek, Oxford, MD, card qsl'ing with no signer. (Holbrook)

MD WBJ-7957 St. Regis, sailboat at mouth of Severn River. Card & photo of boat from RMC John Benson USCG & radioman & crew "Bullet" the wonder dog who lives aboard ! 25 watts. (Holbrook)

MD WBC-8951 156.80 & 156.626 Wind Trails, sail boat at Frog Mortar Creek off Middle River, card received (Holbrook)

MD 3ELF9 156.65 Doctor Lykes, bulk container ship in Chesapeake Bay. Qsl address is: Lykes Bros. Steamship Co. Inc., 300 Poydras St., New Orleans, LA 70130. 25 watts (Holbrook)

MD KEOD 156.65 Nuevo San Juan, container ship near Sharps Island light in Chesapeake Bay. Qsl address is: Puerto Rico Marine Management, P. O. Box 3170, Edison, NJ 08818. (Holbrook)

MD JKIB 156.65 London Highway, inbound car carrier, 25 watts. Qsl address is: Kobe Kisen Kaisha Ltd., Lino Building, 1-1 2 chome, Uchisaiwai-cho, Chiyoda-ku, Tokyo 100, Japan. (this is my 74th Japanese ship qsl'ed here) ! (Holbrook)

MD 8JPX 156.65 Century Highway, a car carrier vessel at Sandy Point, MD, card back from address of: Kawasaki Kisen K.K., (K Line), Hibiya Centra Bldg., 2-9, 1 chome, Nishi-Shinbashi, Minato-ku, Tokyo 105, Japan. /25 watts./ (Holbrook)

This month reporters are Hank Holbrook, Bruce Elving. I got now lots of vhf-marine fm radio qsls to use from Hank. With the lack of items to use, I have been using vhf-uhf utility band qsls. In answer to Bruce's question, yes I still do the column. But due to lack of qsl items, time to do the column, computer problems at times (new 486 DX4 is in the works), & some what at times a lack of interest at times to even to do this column. I have been doing this for a few years now ! See you soon, 73's de KA3TCC



# UHF DEVELOPMENT

## HISTORY OF THE "ULTRA-HIGHS" - (Part Two)

Copyright 1994 by ROBERT B. Cooper, P.O. Box 330, Mangonui, Far North, New Zealand

Note: Part One of this two-part series appeared in a previous issue of *VUD*. We rejoin the story of UHF development at a point where the FCC is under increasing pressure to expand into the UHF spectrum.

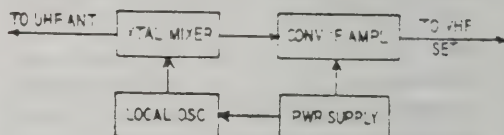
If high band transmitters and systems were inefficient in 1948, UHF was black magic. Every piece of the basic station had to be redesigned. Transmitter power tubes did not exist; transmitting antennas (the 'batwing' created by RCA) proved unacceptable at UHF. And VHF type transmission cables lost 50% of the transmitter power in the first 100 feet of line which left precious few watts at the antenna 400 feet (or more) above the transmitter.

RCA created an on-the-air laboratory at Bridgeport, Connecticut and station KC2XAK on what we now know as channel 23 became a proving ground signing on December 29, 1949. The station was fed first with off-air received and later 2 GHz relayed programming originating at WNBT in New York City. Although RCA couldn't have stopped them from doing so if it wished, it invited the industry 'to come to Connecticut' to help develop adequate consumer receiving systems and antennas using the signal of KC2XAK for development. A great deal was riding on KC2XAK; by 1950 the FCC was hopelessly immersed in the CBS color proposal, which CBS pushed at every opportunity. When in January 1950 CBS announced a 'break through' that allowed color to 'fit into 6 MHz', the FCC relaxed its color guard (5) and focused briefly on UHF. Solving the original co-channel interference problem, the FCC now decided, depended upon having more channels available. After a brief fling at wrestling VHF channels 14-19 back from the military, the FCC was slowly realizing UHF was mandatory. CBS's UHF test of color, now that CBS had it down to 6 MHz, were essentially dead. This placed the future of TV, indeed the end of the freeze, back in RCA's hands and KC2XAK.

The last of the original 107 VHF construction permit holders commenced commercial operation November 15, 1950; KRON on channel 4 in San Francisco. Some significant cities remained without any television; Denver and Portland come to mind. Others, such as St. Louis, had but a single channel (KSD, although smaller communities including Columbus had three). There

would be no new TV stations on the air until July 18, 1952 when Denver's KFEL would break the freeze with a 500 watt temporary transmitter. Commercial station 100, incidentally, was Iowa's WOI-TV which began operation February 21, 1950.

The FCC finally announced (the detail is mind blowing and far too complex to even highlight here) an end to the freeze in April of 1952. But the procedures had changed. New applicants for VHF would typically go to comparative hearings (i.e., two or more applicants per channel with the merits of each applicant subjected to FCC study). To encourage a jump-start to TV for the cities where TV had not arrived, UHF channels would be awarded according to the new allocations table based upon FI/FO (first in, first out). The first commercial UHF station in the world was channel 27 in Portland, Oregon; RCA dismantled their only functional UHF transmitter from Bridgeport,



QUITE STANDARD approach to UHF-VHF conversion: preselection, mixer, i.f. output

Connecticut, retuned it to channel 27 and loaded on vans shipped it intact to Portland where it became KPTV on September 18, 1952. Of note, Portland's lack of TV was self-inflicted. KGW held a CP for channel 6 granted May 17, 1946 and modified to channel 4 in 1947. Alas, the station was never built and the permit lapsed during the freeze.

Between KPTV's sign on and January 1954 199 UHF applicants were awarded construction permits. With the FCC showing only cursory interest in the applicant's qualifications (the primary qualification was to ask for a CP), it should not surprise you that ultimately only 109 (55%) of these CPs ever went on the air. It is another story why of the 109 that got on the air, only 34 were still on the air in 1960. In the same period 102 VHF stations were approved and all 102 were constructed. Of the first 41 UHF CPs granted

Member Robert B. (Bob) Cooper is now completing the third year of a five year project; a two-volume (970 page range) reference set presently titled *TELEVISION: The Technology That Changed Our Lives*. He is sharing with VUD readers material from his files, written with the TV DX enthusiast in mind. Cooper recently spent six weeks in the United States interviewing techno-octogenarians who lived and created this era, digging through records at the FCC, RCA, GE and others for the 1930-1960 period, and visiting collectors of antique television and FM equipment. Volume one of T:TTTCOL should be published late in 1995.



When the freeze ended, 24 (59%) went out of business. If television history is not a pretty review and the FCC made many serious errors in 'creating' and 'regulating' this industry right through 1970. That it exists today is something of a wonder; a subject for another time.

## THE UHF HARDWARE

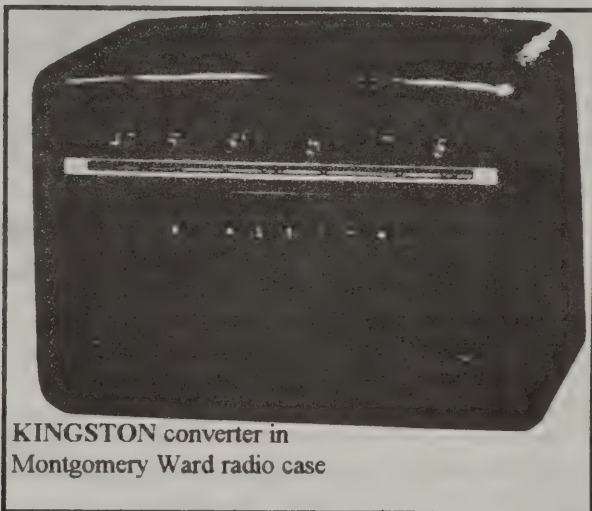
*Put it on the air and they will watch it* " ... (with analogies to Field Of Dreams) was a myth. When KPTV signed on the air in Portland, the city had no television programming locally (although suburban Astoria had pioneered cable reception from Seattle). Portland was ready for TV even if it was UHF. But in Oklahoma City (with pre-freeze WKY on the air) or Lansing, Michigan (in the fringes for pre-freeze Detroit and Kalamazoo plus local WJIM-TV) UHF was another matter. Milton Berle and Ed Sullivan were on CBS and CBS. UHF stations found it very difficult to gain network affiliation because the network people would in most cases rather wait another year for a VHF station to be granted than affiliate with a UHF with no viewers.

Zero viewers? Consider this. Every TV set manufactured through 1953 had a VHF only tuner. To receive UHF the viewer had to invest in a set-top UHF converter, or have the TV tuner ripped apart to allow for 'strips' (single channel, not-user-tuneable, low efficiency 'UHF crystal sets') to be installed in place of the used VHF channel positions. In Oklahoma City, lacking meaningful network affiliation, early UHF KPTV on channel 19 provided little incentive for people to spend additional money to convert to UHF. Where VHF was in and running, UHF stood almost no chance for success. In fact, when Portland got VHF channels even UHF pioneer KPTV abandoned the airwaves for a safe and secure VHF allocation.

VHF and UHF cities were called 'intermixed markets;' something many including Allen B. DuMont urged the FCC to avoid. While the FCC gradually accepted there was an 'intermixture problem' (which kept them well into the late 1960s), TV set makers had little reason to increase the basic cost of TV sets by adding in UHF tuners which would drive up receiver prices by as much as \$50. In 1955, more than 3 years after UHF began, fewer than 20% of the TV sets produced included UHF tuning. It took a FCC ruling (1970) to force set makers to include 'VHF-UHF comparable tuning' and this was pushed only after all other attempts to talk manufacturers into voluntarily including UHF tuning in all sets had failed. In 1953 the technology for 'all-channel tuning' did exist; Standard Gilchrist brought out an 82 channel detent style tuner giving 34 dB of gain on all channels. The state of the art at the time was a noise figure of 7 dB on VHF low band, 9 dB on channels 7-13, and, (are you ready for this!!!) 19 dB at UHF. Yes, UHF reception for the viewer was certainly going to be a challenge.

Thus it fell upon non-TV-set makers to innovate ways for UHF to be inexpensive. If Aerco's 1948 UHF converter was the first, by 1953 there were many more

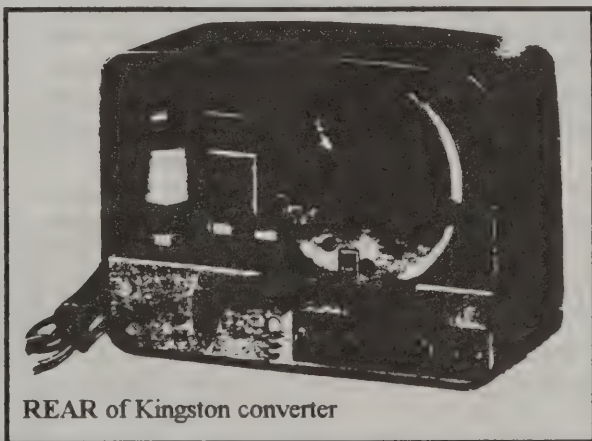
serious suppliers. The basic UHF converter was housed in a typically small box (often the same box used for VHF set top boosters) and had two inputs and an output. Input one was for the UHF antenna, input number two was for the VHF antenna and the output



KINGSTON converter in  
Montgomery Ward radio case

(typically on low band) went to the TV set. The user knob-selected UHF or VHF which connected the appropriate antenna. At VHF the converter typically passed the signal through (with minor VHF losses) although a few manufacturers (such as Astatic with their CB-1, Kentucky's Sutton Electric with their model 22B) included a VHF booster in the box as well. Input and outputs were 300 ohms and no, combination VHF-UHF antennas had not yet been developed.

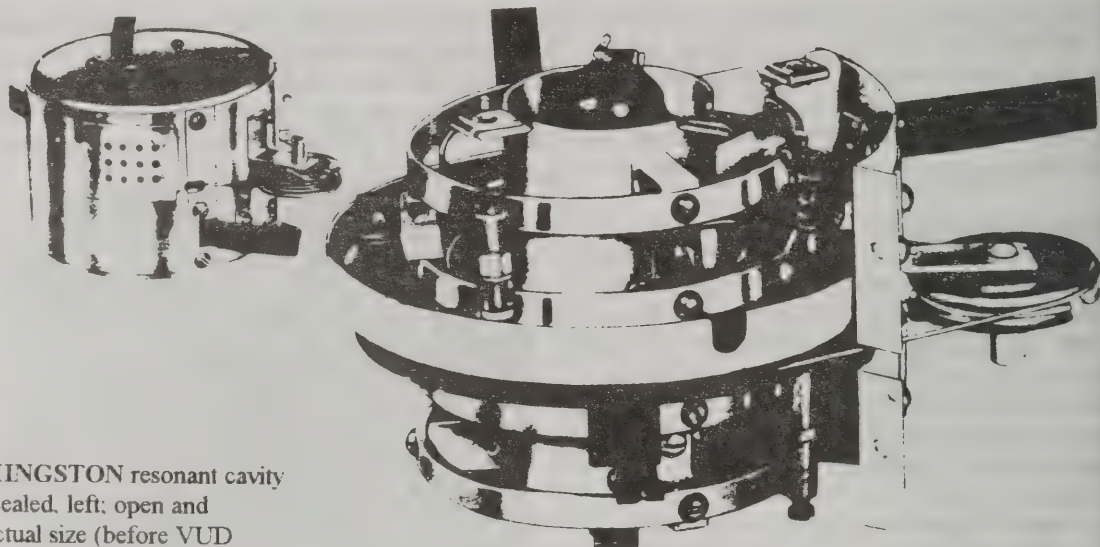
The UHF converter was initially an electrically simple, mechanical nightmare. As shown here, the circuit consisted of a broadbanded input with a UHF region fixed or tuneable bandpass filter (preselector) followed by a mixer stage. The incoming UHF signal was frequency translated to a VHF output channel by generating a UHF local oscillator signal (LO) typically in the 275-750 mc. range and injecting this oscillator



REAR of Kingston converter

signal into the mixer along with the incoming UHF TV signal(s). Should you be 30 years or less old, megacycle, abbreviated mc., was the predecessor to megahertz (MHz). The knob on the converter varied the frequency of the LO, which in turn produced varying mathematical combinations of incoming signal minus the LO to equal the chosen output (VHF IF)





**KINGSTON resonant cavity**  
(sealed, left; open and  
actual size (before VUD  
printing reduction) right.)

In open cavity, 6AF4 oscillator tube is in center. Circular twin lines (top portion) were silver-plated brass 'rods' forming inductance portion of preselection circuit. Tuning had to be smooth, without backlash; a tough assignment given state-of-the-art in 1952.

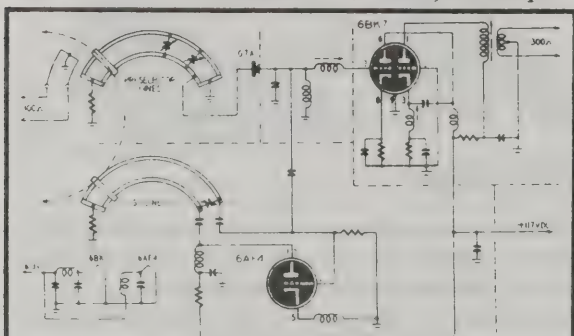
channel. Some converters went from UHF to VHF with no amplification (Blonder Tongue '99er'); others (such as the Blonder Tongue BTU-2 series) added a stage of VHF (IF) gain after the mixer. No home style converter had an UHF RF (amplification) stage and sensitivity variation between units (of the same model, or, of differing manufacture) was common. Even within the channel 14 to 83 range there were wide variations in converter performance as some converters were 'hot' on the high end, others at the low end. Although no home style converters contained RF amplification at UHF, a few manufacturers ventured into the murky world of RF amplification with UHF set top boosters. The David Bogen brand had a UHF (model UHB) unit with a 6AN4 tube; Electrovoice had model 3400 using a pair of 6AJ4s. The June 1960 issue of *DXing Horizons* contained a single 6AN4 build-it-yourself design signal pre-amplifier that many DXers built in that slightly later era. In the January 1954 issue of *Radio Electronics*, TV DX column conductor Edward Tilton reported on the first UHF DX (UHF having begun in 1952). Loggings of 125 miles were considered 'unusual' and earned 'print space' while the record was channel 15 (WVEC) in Hampton,

Virginia being received at New Bedford, Massachusetts. Not unexpectedly, this 450 mile path was very similar to the 'record high band' (7-13) paths recorded in the same magazine 3 and 4 years prior.

As RCA was preparing to dismantle experimental station KC2XAK and move the transmitter to Portland entrepreneurs were lining up to sell converters. In Portland, Fresno and Peoria every home would have to include UHF tuning capability (there initially being no VHF in those markets). Optimism was considerable that in larger markets as well a high percentage of the homes would opt for UHF. They were wrong: what seemed like a 15,000,000 unit market in 1952 was rapidly diminishing to a 1,000,000 market by 1955. The small size of the market never attracted the 'big boys' and although RCA and GE and other name-brand manufacturers did offer UHF set top units, they were little noticed and only half seriously marketed. Zenith persisted with the changeable tuner strip type conversions.

Mass distributed UHF set-top converters were unfortunately sold first on price, lastly on performance. Innovation that cost a few more dollars in manufacture translated to 20-40% pricing differentials at retail shops and although the performance differences could be dramatic, few consumers got this message. To most, there was the attitude they had 'already paid for their TV sets' and the 'addition of a UHF converter-thing' was a unwelcome intrusion into their pocketbooks. The FCC drew thousands of letters published in local newspapers in that era as people complained bitterly about UHF in general blaming the FCC (rightfully, it turned out) for their unhappiness.

While most of us recognize Blonder Tongue, General Electric, Jerrold and RCA (all manufactured UHF converters) fewer would know Astatic, Crosley, Granco, I.D.E.A./Regency, Kingston, P.R. Mallory,



**CIRCUIT of Kingston converter**



radio Receptor, Sutton Electric, Transvision, Turner, Vision Electric or Walsco. Each of these (and many more) manufactured UHF converters during the 50s.

The first, classic, quality UHF converter came from a small company in Kokomo, Indiana called Kingston Products. Finding one of these early units for my growing collection would make me a very happy camper (6). The converter (shown here) had a slide rule dial calibrated not in channel numbers but in megacycles; 4.5 (representing 450 mc.) on the left and roughly 8 (800 mc.) on the right. Its dark brown metal case was impressive for its simplicity; three knobs for power on/off, VHF or UHF inputs, and slide-rule dial setting. The designer was thoughtful enough to include a female two-pronged AC receptacle on the rear so the converter on-off knob could also control the TV set. That design choice would turn out to be a mistake as running the oscillator tube in the converter when the set was being used on VHF rather dramatically reduced the UHF local oscillator tube's already short life.

Continuous tune converters represented the superior technology. A newly developed UHF oscillator tube, the 6AF4 (later 6AF4A), fitted into a mechanical 'cavity' or housing of the Kingston. The inner dimensions of the cylindrical cavity (4" by 3") presented a resonant circuit which was 'tuned' with mechanically moved silver plated brass, curved, 'lines.' The input circuit was a preselector and two tuning

adjustments (set and hopefully forget at time of manufacture) established the tracking between the input preselector and the 6AF4 local oscillator. Kingston used channel 10 as a standard VHF (IF) output and a 6BK7A as an IF amplifier. Provision was made to vary the output channel between 8 and 12 by retuning the 6BK7A circuits. Like all UHF converters of the era, a quarter megacycle (or more) drift was apparent during the 5-10 minute warm-up (as the 6AF4 reached operating temperature with the heat it dissipated to the mechanically tuned cavity also retuning the cavity proper). Kingston's choice of channel 10 as an output showed thought. The 6AF4 oscillator tube was 'working' very hard as an oscillator in the UHF range. By moving the output (IF) up to high band, such as 200 mc., the oscillator only had to work between 270 and 670 mc. Converters that selected channel 4, for example, with a frequency of 66-72 Mc, had to make their oscillators work from 400 to 800 mc., a not insignificant difference for the already hard working 6AF4.

The silver-plated tuned lines and the quite elaborate resonant cavity housing for the 6AF4 local oscillator were not mass production cost friendly. Thus the Kingston was doomed in the marketplace from the outset because it was too good for what would turn out to be a low-ball market. Others such as Blonder Tongue cheapened the product dramatically during

(6) When I began this writing project, I determined there were 'just a few' of the precedent-setting TV devices between 1933 and 1960 I would collect; collecting is (a) an expensive undertaking, (b) a fulltime - parttime hobby, and (c) almost impossible to do successfully when you live in New Zealand and all of the items you want to collect are rotting in hay lofts in Ogallala, Nebraska or Albany, New York.

The Kingston Products UHF converter was one of these items. I've never found one and here's why. In Kokomo, Indiana Kingston Products had been building radios for Montgomery Ward since the 40s. They had a modest lab and when UHF was a certainty, went to work designing a converter. Using recently released MIT data chief engineer Harold Reith designed a full cavity tuner (see illustration here); the 'pure' and best engineering approach to the UHF to VHF problem. At the time (March 1952) radio station WELI in New Haven (Ct) was volunteering its engineering staff, led by Fred King, to test and evaluate proto-type UHF converters from any manufacturer who wanted field testing performed. WELI was within 25 miles of RCA's CC2XAK and this was a fine testing point for early UHF. Reith's development crew took 15 'old metal cases' originally designed by Kingston for Montgomery Ward 4 tube radios and had their shop modify them for the UHF converters. Five of the cases were filled with the cavity converter innards you see in the illustrations here: one going to WELI for test and subsequent write-up in the October 1952 issue of *Radio Electronics*. Reith also delivered a 'paper' to a New York convention or the IRE (Institute of Radio Engineers) on March 5, 1952 describing the design.

Price competition in the UHF converter marketplace was intense by July 1952 although the first commercial UHF station would not sign on until September 18. Kingston agreed to manufacture their converter 'innards' for the Regency Division of I.D.E.A., a fellow Hoosier firm. 50,000 of the Kingston 'guts' ended up inside of 50,000 Regency cases (the RC-600 model); the original order for 100,000 Kingston units was terminated half-way through, because as former Kingston design engineer James Fred told me "By the time the tooling for the cabinet was finished and the tuner put on the market it was obsolete." Well, maybe not technically obsolete; just financially obsolete. The RC-600 was simply too good for the cut-throat, cheapen the product without regard to performance, 'real market.'

The original model illustrated? Only prototypes were built, no more than 15, probably more like 8 were actually completed. Fred recalls "I was able to get the remaining cabinets and enough parts to make three or four complete converters. Fort Wayne, Indiana had recently put their first UHF station on the air and I sold the converters to a friend there that owned an interest in a Western Auto Supply store. I still see that friend and have tried to find those converters, but never have." Kingston closed their 'radio department' in May 1954.

Someplace in a hayloft in or about Fort Wayne there may be one of these rare jewels covered with dust and grime. I'd sure like to have it. I'll even settle for an Regency RC-600 because I know what's under the hood!



1953 and 54 leaving Kingston and others with a 'quality approach' to succumb to the marketplace.

For the balance of the 1950s the 6AF4(A) local oscillator tube would prove to be an archilles heal to UHF reception. Even the Kingston was basically nothing more than a 'crystal set' with some modest frequency pre-selection and an IF after burner gain stage. 6AF4 tubes proved first to be short-lived (the A version improved this somewhat) and variable in performance. It was not uncommon for a service technician to pre-grade his stock of 6AF4s marking the respective boxes with apparent tube performance. The 'hot ones' were saved for customers that got really fringe area quality signals. The efficiency (or lack thereof) of the U to V conversion depended upon the amount of local oscillator 'injection' from the 6AF4 to the crystal mixer. Crystal mixers were also variable in sensitivity (i.e., conversion efficiency) and diagnosing UHF converter problems became a nightmare; was the crystal mixer poor, the 6AF4 injection too low (or too high as this could also be a problem)?

A few set manufacturers wanted to avoid the Zenith tuner strip change out routine (typically the lowest performing option, although it was most customer friendly since the viewer merely click-stopped the TV tuner to the channel number where the UHF strip had been substituted for an unused VHF channel), and, wished to capture some part of the modest marketplace dollars being reaped by the outboard converter people. RCA, G-E and Philco offered two or three channel fixed-tuned converters that typically mounted on the back, or side of the TV set. Rather than continuous tune, these converters had a couple of push buttons which activated the lumped constant (pre-tuned by installer or factory) circuits that tuned in the selected UHF channel. This was the same 'tuner' ploy used in the pre-1948 VHF sets prior to the introduction of the VHF turret tuner. Basically, it was a way for these manufacturers to compete with Zenith by offering the equivalent of strip-change-out without actually having to 'destroy' the VHF tuner in the process. Such adapters (as opposed to converters) typically borrowed their modest operating power requirements from the TV set itself so installation was a service person, not consumer task.

The UHF set top converter was a potential 'do-it-yourself' Joe-Handyman exercise. The consumer could purchase a converter, UHF aerial and some leadin and spend a half day installing it him or herself. This sounds pretty basic today but you must realize that everything about television was still 'black magic' in the 50s and neither the instructions nor the hardware existed for the consumer to accomplish this goal without numerous opportunities to screw it up.

As bad as antennas may have been, as inefficient as UHF conversion gadgets were, the real stinker was the leadin wire connecting the antenna to the receiver. By 1953 the TV industry had pretty much standardized on 300 ohm flat or ribbon line. Tubular 300 ohm line, with an air core or foam core, was not widely available. For really long runs there was 300 and 450 ohm 'open

wire line;' twin copper wires appropriately spaced apart by fixed plastic spacers every 4-8 inches and nothing but air in between the wires. Stock twin lead was a disaster at UHF. When dry it had acceptable losses in the region of 4 dB per 100 feet at 600 MHz. Wet, the losses skyrocketed to 23 dB! And that was best case. To route the twin lead from the antenna (which over the 470-890 mc. range exhibited impedances that strayed far from 300 ohms making antenna system performance unpredictable) to the TV set/converter was a major challenge. At one or more points between the antenna and the converter the twin lead was almost certain to pass over, along side of, or through something metal. Routing down the metal antenna mast involved using 3" or 5" long 'stand off insulators' but it was beyond the average consumer to understand why coiling the flat twinlead around the mast (in lieu of spending money for and battling with the tempermental stand offs), or sliding it through a metal window casing, was a bad idea. Even using insulators was no guarantee that the line would stay away from metal and the totally (electrically) unshielded twin lead was quickly sucked dry of its meagre UHF signal energy with even a casual passby of something metallic.

All of these factors added to UHF's failure. It was difficult to receive and when it rained (soaking the line) marginal reception would disappear totally in a blizzard of snow. Even if you had all of this sorted out, the 6AF4 was guaranteed to go sour periodically leaving you with a gradually declining quality of reception that became worse and worse until the 6AF4 quit altogether. Worse than all of this, unless you lived in what the FCC called 'A UHF Island' (where no VHF signals were available), the programming on UHF was so poor that even people who spent money to receive UHF often quit watching after a week's trial.

It was no surprise that UHF stations going on the air with great hope and promise starting in the spring of 1953 were by the fall of 1953 going off the air. In fact, by 1956 more UHF stations left the air during the year than signed on new. UHF, with isolated Fresno and Peoria examples (where the public had no choice but to put up with the UHF reception problems or not watch television), became first a joke within the industry, then a joke with the public at large. The author remembers

#### **-DO YOU WANT MORE?-**

If you are in favor (spelled favour in New Zealand) of additional VUD-customized-excerpts from TELEVISION: The Technology That Changed Our Lives please take a few minutes to drop Bob Cooper a note. From the following topics (actually sub-sections within T:TTTCOL) select one or two you would like to see in future VUDs to help Bob determine which topics to feature here.

#1/ The very first TV DX (1937 London to New York with off-screen photos); #2/ The intriguing story of the CBS color wheel; #3/ The first TV antennas; #4/ The early TV boosters.



watching a KGO (channel 7, San Francisco) newscast on the day that Fresno's first UHF station (KMJ, channel 24) went on the air. The reporter, later to become a popular columnist for *The San Francisco Chronicle* (Art Hoppe), announced with tongue in cheek that Fresno had its first TV station. Then he tried to explain the station was 'UHF' and soon became lost in his own mis-understanding of how it differed from VHF. The message he was trying to convey, perhaps with a bit of ridicule attached, was that UHF stations were somehow inferior to VHF stations and reception was limited to what he described as 'very short distances.' He ended by suggesting that if you "really wanted to watch KMJ-TV," first you should "buy a bus ticket to Fresno and then take a cab to their transmitting tower."

A television station in Connecticut went on the air on UHF in 1954. Twelve months later the station, unable to acquire network affiliation and faced with running one or two (very) old public domain movies in the evenings as its only programming fare, pondered just how bad things really were. During a break in its 8PM movie (a break where commercials would go if they had sold any; they had not), the station offered \$100 to the first viewer to call in. Nobody called. At the next break the only employee, cum station manager, upped the ante to \$200; the phone still did not ring. At the end of the movie the station manager did a voice over with the call slide and made the supreme offer; \$500 to anyone, just for calling the station. The phone never rang. The next day the station closed down and the license was relinquished to the FCC.

Such were the challenges facing America's first-decade pioneer UHF telecasters.

#### ERRATA-

As I begin the final year of serious research into the development of "television - the technology" preparatory to stitching together the hundreds of related but separate topics that make up this story, I find myself in need of 'foot soldiers' within the USA to run down some of the missing details. Over the course of researching this topic several hundred people have assisted and all will be properly recognized in the print versions of the two-volume set.

Still, there remains leg-work to be done and as noted a seven week jaunt spanning Los Angeles to Boston has recently been completed allowing me to dig through long forgotten files, talk with archival curators and spend hours interviewing octogenarians who made all of this happen.

Perhaps you would like to or could help? Early public library archives (such as Milwaukee where WTMJ experiments preceded many other pioneers) are a wonderful resource but require personal visits to properly examine. I can provide the guidance and direction from New Zealand; trotting down to a library in Milwaukee, Los Angeles or Philadelphia is another matter. Anyone with a passion for history is welcome to contact me directly. *Be warned:* I will pay copying expenses but have no budget for research time.

#### SOME INTERESTING EARLY UHF FACTS-

\* Of the first 41 UHF stations to go on the air, only 17 (41%) remained viable in 1975.

Of those 17, 11 (65%) were later required by the FCC to change their UHF operating channel. Thus 6 of the original 41 still operate today on their original channel.

Why was this of interest? Because a high percentage of early UHF-equipped receivers were strip-conversions or adapter converted. In Springfield, Ma., for example, WWLP was originally on channel 61. To its benefit it would later move to channel 22, but in the process more than 40,000 homes had to have their TV set conversions re-converted at their own expense.

\* Once UHF was underway, the FCC began wholesale approvals of new (increased) tower heights and transmitting power for VHF stations. In Atlantic City, NJ, UHF WFPG lost 33 half-hour network programs after Philadelphia VHF stations were allowed to increase their coverage into the southern New Jersey community.

Without network programming to compete, WFPG went off the air. Similarly, two early UHF stations serving Spartanburg, SC had network affiliations and a profitable business until the FCC allowed WSPA to move its channel 7 transmitter to a 3,500 foot mountain and increase power. Shortly after, the two pioneering UHFs lost their network programming and had to leave the air.

\* The range of UHF stations that pioneered the new band and then 'went dark' (before January 01, 1955) because of a lack of network affiliation and/or the availability of VHF signals in their areas included:

KITO/18/San Bernadino, Ca.; WTAC/16/Flint, Mi.; KACY/14/Festus-St. Louis, Mo.; WKLO /21/Louisville, Ky.; WACH/33/Newport News, Va.; WKAB/48/Mobile, Al.; WCOC/30/Meridian, Ms.; KSTM/36/St. Louis, Mo.; WCHA/46/ Chambersburg, Pa.; KBID/53/Fresno, Ca.; WRAY/52/ Princeton, In.; KFAZ/43/Monroe, La.; WBKZ/64/Battle Creek, Mi.; WFTV/38/Duluth, Mn.; WBES/59/ Buffalo, NY; KNUZ/39/Houston, Tx.; WTOV/27/ Norfolk, Va.; WKJF/53/Pittsburgh, Pa.; WECT/18/ Elmira, NY; WLBR/15/Lebanon, Pa.; KCEB/23/ Tulsa, Ok.; WNMA/42/Neenah, Wi.; WPFA/15/ Pensacola, Fl.; WTVE/24/Elmira, NY; WTRI/35/ New York, NY; KMPT/19/Oklahoma City, Ok.; WBTM/24/Danville, Va.; WKNA/46/Charleston, WV.; WCAN/25/Milwaukee, Wi.

During 1955 and early 1956, new UHF 'drop-outs' included:

KTVU/36/St. Louis, Mo.; WTVI/54/Bellefonte, Pa.; KGTU/17/Des Moines, Ia; WLAM/17/Lewiston, Me.; WRTV/58/Asbury Park, NJ; WFMZ/67/ Allentown, Pa.; WQXI/36/Atlanta, Ga.; WNEX/47/ Macon, Ga.; WEEU/33/Reading, Pa.; WNET/16/ Providence, RI.

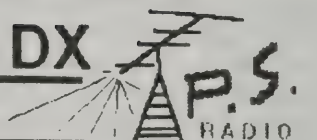
And the list went on ...and on through the 1960s.



# VHF-UHF UTILITY DX

WEATHER - AIR - MARINE - PSB

BILL HEPBURN - 35 LOCKWOOD RD - BRAMPTON ON - L6Y 4T7



## WEATHER RADIO

### NEW STATIONS

???	WX	???	ON ORILLIA - to relay XMJ-316 162.475 Collingwood
???	WX	???	ON FORT FRANCES - freq 162.40 or 162.475

## AERO WEATHER

### NEW STATIONS

112.2	TWEB	PDZ	CA PARADISE - VOR adds Riverside TWEB.
113.8	ATIS	YQG	ON WINDSOR
118.175	AWOS	KZN9	GA CARROLLTON
118.325	AWOS	.....	NY POTSDAM
119.275	AWOS	.....	MN DULUTH-SKY HARBOR
119.275	AWOS	.....	MO FARMINGTON
119.275	AWOS	KAA8	NY SCHENECTADY
122.55	AWOS	.....	NF CHURCHILL FALLS
122.55	AWOS	.....	NF MARY'S HARBOUR
122.8	SAWRS	KUO8	PA STATE COLLEGE - 1030-0430 Z.
124.4	ATIS	VFP4	AB RED DEER
125.1	ATIS	.....	ON KITCHENER-WATERLOO
125.7	ATIS	VFK	PQ SCHEFFERVILLE - EE Language.
126.1	ATIS	VFK	PQ SCHEFFERVILLE - FF Language.
126.6	ATIS	VFT6	ON TIMMINS
128.7	AWOS	.....	ON BIG TROUT LAKE
128.8	ATIS	.....	TX SAN ANTONIO-STINSON
132.725	AWOS	.....	MS OXFORD
133.1	AWOS	.....	LA NEW ORLEANS-DOWNTOWN
133.5	ATIS	.....	AZ PHOENIX-WILLIE
273.5	ATIS	.....	NC GOLDSBORO-SEYMOUR JOHNSON

### FREQUENCY CHANGES

112.15	ATIS	YYZ	ON TORONTO - ex-113.3
115.6	HIWAS	PVD	RI PROVIDENCE - HIWAS, ex-135.925.
123.75	ATIS	.....	OH YOUNGSTOWN-WARREN - ex-119.75.
127.4	ATIS	.....	ON SUDBURY - ex-124.4
133.05	ATIS	VFJ7	ON SAULT STE MARIE - ex-124.95

### STATUS CHANGES

112.7	HIWAS	CAP	IL SPRINGFIELD - HIWAS out of service.
116.3	HIWAS	ISN	ND WILLISTON - HIWAS out of service.
117.4	HIWAS	STL	MO ST LOUIS - HIWAS out of service.
117.9	HIWAS	EMI	MD WESTMINSTER - VOR Leesburg HIWAS back on air.
118.05	AWOS	KZL4	PA ST MARY'S - off the air.
124.3	ATIS	.....	AZ GRAND CANYON - to become part-time ASOS.
124.65	AWOS	WNU2	CA COLUMBIA - back on air.
127.65	AWOS	WRP8	PA STATE COLLEGE - now 0430-1030 Z only.
127.875	AWOS	KWF6	ND WAHPETON - off the air.
134.625	AWOS	.....	CA PORTERVILLE - back on air.

135.075 AWOS ..... CO TRINIDAD - back on air.

### DELETIONS

108.4	.....	DPA	IL CHICAGO-W CHICAGO - TWEB decommissioned.
114.4	.....	GFS	CA GOFFS - TWEB decommissioned.
114.7	.....	AQH	AK QUINHAGAK - VOR TWEB decommissioned.
115.4	.....	END	OK ENID - VOR ATIS decommissioned.

### MARINE WEATHER

R

### NEW STATIONS

161.85	MRN	KLC	TX GALVESTON - Wx 1015, 1515, 1915, 2215 & 0215 Z
161.925	MRN	KLC	TX GALVESTON - Wx 1015, 1515, 1915, 2215 & 0215 Z
161.95	MRN	KLC	TX GALVESTON - Wx 1015, 1515, 1915, 2215 & 0215 Z
161.975	MRN	KLC	TX GALVESTON - Wx 1015, 1515, 1915, 2215 & 0215 Z

### AVIATION WEATHER BROADCAST ABBREVIATIONS

*ALL BROADCASTS ARE CONTINUOUS.*

ASOS = AUTOMATED SURFACE OBSERVING SYSTEM.  
*COMPUTERIZED 'WEATHER ROBOT'. (Latest Version)*

ATIS = AUTOMATIC TERMINAL INFORMATION SERVICE.  
*LOCAL WEATHER & AIRPORT INFO BCST BY TOWER.*

AWOS = AUTOMATED WEATHER OBSERVING SYSTEM.  
*COMPUTERIZED 'WEATHER ROBOT'. (Standard Version)*

HIWAS = HAZARDOUS INFLIGHT WEATHER ADVISORY SERVICE.  
*ENROUTE WX ADVISORIES BCST BY FSS RADIO ON VORs.*

SAWRS = SUPPLEMENTAL AVIATION WEATHER REPORTING STATION.  
*PRIVATE LOCAL WEATHER INFO BCST BY UNICOM.*

TWEB = TRANSCRIBED WEATHER BROADCAST.  
*ENROUTE FORECAST & ACTUAL WX BCST BY FSS RADIO ON VORs.*

HIWAS & TWEB BROADCASTS ARE ON VORs IN THE 108-118 MHz BAND ONLY  
(EXCEPTION- VFW5 WINNIPEG MB ON 122.4 MHz).

ASOS, ATIS, AWOS & SAWRS BROADCASTS ARE USUALLY ON DISCRETE  
FREQUENCIES IN THE 118-137 MHz BAND ... BUT SOME ARE CARRIED ON  
VORs IN THE 108-118 MHz BAND. MILITARY BROADCASTS ARE ALSO FOUND IN  
THE 138-144 MHz AND THE 225-400 MHz BANDS.

### LOGGINGS...

HANK HOLBROOK - 407 ARUNDEL RD - FAIR HAVEN CLIFFS - DUNKIRK MD - 20754

Recv: Sony AIR-8

Ant: ANT-8 whip

# = Initial CQ on 156.8

### JUNE 1994 (EDT)

01 TR 0904	WHW-819	156.7	DE LEWES	74 MRN NAV Del. Pilot
05 TR 0841	WHU-710	156.8	NJ BRICK	156 MRN Sea Tow Cntrl NJ
	0909 NMK-?	157.1 #	NJ FORTESCUE	87 USCG
	0928 NMK-2	157.1	PA PHILADELPHIA	111 USCG
10 TR 0455	NMK	156.8	NJ CAPE MAY	86 USCG
	0845 LANN-4	156.8	DE nr LEWES	80 SHIP Helene Knutsen
	0915 KLHC	156.7	DE nr BUOY 9	75 SHIP Tropic Sun
15 TR 0217	WYR-3645	156.65	DE nr SHIP JOHN SHOAL	75 SHIP Northern Sun
	0819 WDT-543	156.4 #	MD OCEAN CITY	82 MRN OcnCy Fishing Ctr
19 TR 0816	ELFT	156.7	DE nr DELAWARE BUOY	80 SHIP Chevron Star



WILLIAM R. HEPBURN - 35 LOCKWOOD RD - BRAMPTON ON - L6Y 4T4

Rcvr: Realistic PRO-2004 & Icom IC-R100 Ant: Attic verticle dipole

JULY 1994 (EDT)

19 ES 2004	<u>PWE</u>	<u>112.4</u>	<u>NE</u> PAWNEE CITY	876 VOR-Columbus HIWAS
20 TR 0042	???	142.77	ON INGERSOLL	T POL. "IG" CW ID
0450	<u>VQC</u>	<u>113.5</u>	ON STIRLING	113 VOR
0520	<u>VTE</u>	<u>115.1</u>	ON COEHILL	116 VOR

AUGUST 1994

24 GW ----	<u>YYZ</u>	<u>112.15</u>	ON TORONTO	6 VOR-ATIS. ex-113.3
------------	------------	---------------	------------	----------------------

OCTOBER 1994

17 TR 2057	<u>DKK</u>	116.2	NY DUNKIRK	85 VOR "Dunkirk VOR"
26 GW ----	???	<u>125.1</u>	ON KITCHENER-WTRLO	34 ATIS

73s...

---

## All Ohio Scanner Club

DAVE MARSHALL N8OAY  
50 VILLA ROAD  
SPRINGFIELD, OHIO 45503-1036

---

The AOSC is expanding its area of coverage, effective January 1, 1995, to include the Northeastern United States. Columns covering Connecticut, Delaware, District of Columbia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, Vermont and Virginia will be added to the existing coverage of Ohio and Illinois, Indiana, Kentucky, Michigan, Pennsylvania and West Virginia. The new columns and editors will be introduced in our January/February 1995 issue, and the columns will start in our March/April 1995 issue.

The "American Scannergram", the AOSC's newsletter, averages 44 to 48 pages a month, and will be expanded several pages to accommodate the new columns. In addition to regional columns covering public safety, business, power and water utilities, there are special interest columns covering aviation, federal government, military, railroads, sports and entertainment, shortwave utilities, state government, how-to articles for both the beginner and experienced hobbyists, and more.

Membership dues for the All Ohio Scanner Club are \$18.00 for members in the United States, \$21.00 for Canadian memberships and \$28.00 for all other countries. For a membership application, send an SASE to the All Ohio Scanner Club at 50 Villa Road, Springfield, Ohio 45503-1036, or send e-mail to [davem0911@aol.com](mailto:davem0911@aol.com) from any online service or computer bulletin board that has access to the Internet. A sample copy of a recent issue of the "American Scannergram" is available for \$3.00

# YOUR ATTENTION PLEASE!

U.S. POSTAL RATES ARE  
EXPECTED TO INCREASE IN  
1995. THIS WILL ALSO  
MEAN AN INCREASE IN  
W.T.F.D.A. CLUB DUES!

YOU CAN RENEW NOW AT  
THE CURRENT RATE FOR  
UP TO 2 YEARS! BEAT ANY  
UPCOMING DUES  
INCREASE BY TAKING  
ADVANTAGE OF THIS  
SPECIAL OFFER!

W.T.F.D.A - P.O. Box 514 - Buffalo, NY 14205-0514



## RDX Labs

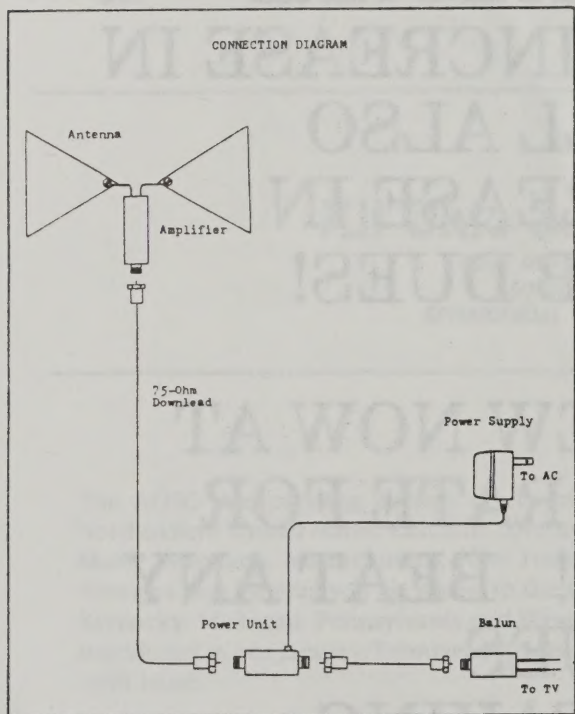
### BALUN AND LOW-NOISE AMPLIFIER COMPONENTS

The UA-series balun and amplifier components for broadcast television reception is highlighted by the popular UA-900 UHF low-noise amplifier. With our exclusive low-loss balun and GaAs FET circuitry, it provides an unmatched combination of high sensitivity to bring in weak signals AND resistance to overload by strong local stations. We also offer a super-low-noise, high gain version of this amp for the most demanding "deep fringe" reception areas where signals are very weak and overload is not a consideration. The UA-900A

#### Features...

- Low-noise GaAs FET circuitry
- High overload resistance
- Unconditional stability
- Integrated low-loss balun
- Direct connection to antenna
- Rugged and weatherproof
- Easy to use and install
- DC power via 75-ohm coax
- Lightning protection
- UL listed power supply

provides 0.5 dB NF and 30 dB gain to recover these signals and overcome the high loss of long transmission line runs between the antenna and receiver.



All our VHF and UHF amps feature an integrated design housed in a small, encapsulated package that is rugged and totally weatherproof. It allows direct connection to the 300-ohm antenna terminals so that lossy jumpers and complicated mounting hardware are eliminated making installation quick and easy. The amps come complete with UL listed, plug-in AC power supply and in-line power unit. The power unit supplies clean, stable low-voltage DC power to the amplifier via the coax download. All amps are available with either 300-ohm or 75-ohm input.

The same precision, low-loss baluns employed in our high-performance amplifiers are available for system upgrades where it is desired to eliminate the excessive loss - 2 dB at UHF - of conventional, low-cost matching transformers. The wideband UA-60 and the UA-75 for UHF are both made to provide years of reliable outdoor service without performance degradation.

#### SPECIFICATIONS

Frequency	VHF	54-88, 174-216 MHz
	FM	88-108 MHz
	UHF	470-806 MHz
Output Impedance		75 ohms
VSWR		1.3
Operating Temp		-40 to +140 °F
Humidity		100% RH

Input	300-ohm	#18 AWG leads
	75-ohm	Type F female
Output		Type F female
Size	300-ohm	2-1/4"L x 3/4"Dia
	75-ohm	1-1/2"L x 3/4"Dia
Weight	300-ohm	1.2 oz. (34g)
	75-ohm	0.9 oz. (26g)

RDX Laboratories  
P.O. Box 88  
Derby, Kansas 67037

Design and specifications subject to change without notice  
Patent Pending

Printed in U.S.A.



## RDX Labs

### COMPONENT PRICE LIST

November 1, 1994

#### TV - FM

UA-75	Low-Loss UHF Balun 0.1 dB loss, 1.2 VSWR	\$29.95	2/\$49.95 5/\$99.95
UA-60	Low-Loss VHF-UHF Balun 0.3 dB loss, 1.2 VSWR	\$29.95	2/\$49.95 5/\$99.95
UA-900	UHF Low-Noise Amplifier 20 dB gain, 1.0 dB NF 150mV/300ohms max input	\$99.95	
UA-900A	UHF Super-Low-Noise Amplifier 30 dB gain, 0.5 dB NF 40mV/300ohms max input	\$129.95	
UA-700	VHF Low-Noise Amplifier opt. A, Ch 2-13 and FM opt. B, Ch 2-13, FM trapped opt. C, Ch 7-13 Ch 2-6: 13 dB gain, 1.9 dB NF Ch 7-13: 18 dB gain, 1.2 dB NF 250mV/300ohms max input	\$99.95	
UA-600	Broadband Low-Noise Amplifier opt. A, VHF-UHF-FM opt. B, VHF-UHF, FM trapped VHF: 13 dB gain, 1.9 dB NF UHF: 18 dB gain, 1.3 dB NF 250mV/300ohms max input	\$99.95	
UA-500	FM Low-Noise Amplifier 13 dB gain, 1.5 dB NF 450mV/300ohms max input	\$99.95	

#### Scanner/Communications

These amps feature nominal 18 dB gain, 1.0 dB NF and F connectors in and out. They cover the full VHF-UHF spectrum and include models for specific UHF bands. UA-20 25-1300MHz, UA-21 25-1300MHz w/FM trap, UA-22 450-960MHz, UA-23 806-960MHz. \$99.95

#### Satellite

This low-noise line amp connects ahead of signal splitter to overcome transmission line/splitter loss and restore original signal quality to each receiver in the system. Model UA-30 covers 950-1450MHz, 15 dB gain and 1.0 dB NF. \$99.95

TERMS: Amplifier prices are for 75-ohm input; add \$10.00 for 300-ohm input with built-in, low-loss balun. Add \$5.00 S/H per order. Kansas residents include 5.9% sales tax. Only prepaid orders accepted. Allow two weeks for delivery.

RDX Laboratories / P.O. Box 88 / Derby, KS 67037





## WORLDWIDE TV-FM DX ASSOCIATION

POST OFFICE BOX 514-BUFFALO, NY 14205-0514-U.S.A.



OPINIONS EXPRESSED IN THIS PUBLICATION ARE THOSE OF THE INDIVIDUAL CONTRIBUTOR AND DO NOT NECESSARILY REFLECT THE VIEWS OF THE PUBLISHER OR BOARD OF DIRECTORS. WE RESERVE THE RIGHT TO EDIT MATERIAL TO MEET PUBLISHING STANDARDS. UNLESS PREVIOUSLY AGREED UPON IN WRITING, ALL MATERIAL SUBMITTED FOR PUBLICATION IN THE WF-4HF DIGEST BECOMES THE PROPERTY OF W.T.F.D.A.

REPRODUCTION OF MATERIAL FROM THE WF-4HF DIGEST WITHOUT PERMISSION OF W.T.F.D.A. IS PROHIBITED. INDIVIDUALS AND OTHER ORGANIZATIONS ARE GRANTED SUCH PERMISSION PROVIDING PROPER CREDIT IS GIVEN TO THE SOURCE.

**ANNUAL DUES: United States: \$20.00**

**(payable in Canada: \$22.00**

**U.S. funds) Overseas: \$32.00**

**first class mail**

